

Dell™ XPS™ M1730 Owner's Manual

[About Your Computer](#)

[Setting Up Your Computer](#)

[Using the Display](#)

[Using the Keyboard](#)

[Using a Battery](#)

[Using the Camera](#)

[Using GamePanel](#)

[Using Multimedia](#)

[Using Cards](#)

[Setting Up and Using Networks](#)

[Securing Your Computer](#)

[Cleaning Your Computer](#)

[Troubleshooting](#)

[Adding and Replacing Parts](#)

[Traveling With Your Computer](#)

[Getting Help](#)

[Specifications](#)

[Appendix](#)

[Glossary](#)

Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Model PP06XA

April 2008 P/N TM373 Rev. A04

About Your Computer

Dell™ XPS™ M1730 Owner's Manual

- [Front View](#)
- [Left Side View](#)
- [Right Side View](#)
- [Back View](#)
- [Bottom View](#)

Front View



1	camera	2	display
3	power button	4	GamePanel
5	device status lights	6	right speaker
7	infrared sensor	8	media control buttons
9	touch pad	10	left speaker
11	Dell™ MediaDirect™ button	12	keyboard status lights
13	digital array microphones (2)	14	display latch
15	camera indicator		

camera —

Built-in camera for video capture, conferencing, and chat.

display —

For more information about your display, see [Using the Display](#).

power button —

Press the power button to turn on the computer or exit a power management mode (see [Power Management Modes](#)).

NOTICE: To avoid losing data, turn off your computer by performing a Microsoft® Windows® operating system shutdown rather than by pressing the power button.

If the computer stops responding, press and hold the power button until the computer turns off completely (which may take several seconds).

GamePanel —

A small secondary LCD for displaying text and graphical information.

device status lights



	Turns on when you turn on the computer and blinks when the computer is in a power management mode.
	Turns on when the computer reads or writes data. NOTICE: To avoid loss of data, never turn off the computer while the light is flashing.
	Turns on steadily or blinks to indicate battery charge status.
	Turns on when wireless devices are enabled.
	Turns on when Bluetooth® wireless technology is enabled. To enable or disable Bluetooth wireless technology, toggle the wireless switch between the "on" and "off" positions (see wireless switch for more information).

If the computer is connected to an electrical outlet, the light operates as follows:

- o Solid blue: The battery is charging.
- o Flashing blue: The battery is almost fully charged.
- o Off: The battery is adequately charged (or external power is not available to charge the battery).

If the computer is running on a battery, the light operates as follows:

- o Off: The battery is adequately charged (or the computer is turned off).
- o Flashing orange: The battery charge is low.
- o Solid orange: The battery charge is critically low.

touch pad —

Provides the functionality of a mouse (see [Touch Pad](#)).

Infrared Sensor —






Consumer Infrared sensor to operate the remote control.

Media control buttons —

Control CD, DVD, and Media Player playback.



	Mute the sound.		Play the previous track.
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	Turn the volume down.		Play the next track.
	Turn the volume up.		Stop.
	Play or pause.		

speakers —

To adjust the volume of the integrated speakers, press the volume control buttons or mute button.

Dell™ MediaDirect™ button —

Press the Dell MediaDirect button to launch Dell MediaDirect (see [Using Dell MediaDirect™](#)).






1	Dell MediaDirect button
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keyboard status lights



The blue lights located above the keyboard indicate the following:

	Turns on when the numeric keypad is enabled.
	Turns on when the Caps Lock function is enabled.
	Turns on when the scroll lock function is enabled.

Digital Microphones —

Digital directional microphones for conferencing and chat.

display latch —

Keeps the display closed.

camera Indicator —

The indicator shows solid blue light when the camera is active and off when the camera is not.

Left Side View



1	DVI-I connector (Dual link)	2	S-video connector
3	USB connector	4	IEEE 1394 connector
5	8-in-1 memory card reader	6	optical drive
7	microphone connector	8	headphone connectors (2)

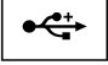
DVI-I Connector —

Used for connecting a DVI or VGA display (through dongle).

S-video connector —

Connects your computer to a TV. Also connects digital audio-capable devices using the TV/digital audio adapter cable.

USB connectors

	Connect USB devices, such as a mouse, keyboard, or printer.
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IEEE 1394 connector —

Connects devices supporting IEEE 1394 high-speed transfer rates, such as some digital video cameras.

8-in-1 memory card reader —

Provides a fast and convenient way to view and share digital photos, music, and videos stored on a memory card. The 8-in-1 media memory card reader reads the following digital media memory cards:

- o Secure Digital (SD)
- o SDIO
- o MultiMediaCard (MMC)
- o Memory Stick
- o Memory Stick PRO
- o xD-Picture Card
- o Hi Speed-SD
- o Hi Density-SD

optical drive —

For more information about the optical drive, see [Using Multimedia](#).



microphone connector —

Attach a microphone to this connector.

headphone connectors —

Dual headphone connectors for attaching headphones.



Attach a microphone to the  connector.
Attach headphones to the  connectors.

Right Side View



1	Express card slot	2	wireless switch
3	Wi-Fi Catcher™ Network Locator	4	USB connectors (2)
5	security cable slot		

ExpressCard slot —

Supports one ExpressCard. The computer ships with a plastic *blank* installed in the slot. For more information, see [ExpressCards](#).

wireless switch —

You can use this switch to rapidly turn off or on any wireless devices such as WLAN cards and internal cards with Bluetooth wireless technology.




1	off	2	on
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DELL Wi-Fi Catcher™ network locator —

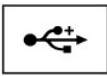
Push this button to scan specifically for wireless networks in your vicinity.

The Wi-Fi Catcher Network Locator has an LED that operates as follows:

- o Flashing blue: Searching for networks
- o Solid blue: Strong network found
- o Solid yellow: Weak network found
- o Off: No signal found

 **NOTE:** The Dell Wi-Fi Catcher Network Locator light appears only when the computer is turned off and wireless networking is activated in the system setup program.

USB connectors

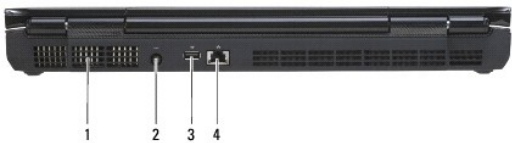


Connect USB devices, such as a mouse, keyboard, or printer.

security cable slot —

Lets you attach a commercially available antitheft device to the computer (see [Security Cable Lock](#)).


Back View



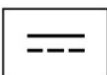
1	air vents	2	AC adapter connector
3	USB connector	4	network connector (RJ-45)

air vents —

The computer uses an internal fan to create airflow through the vents, which prevents the computer from overheating.

 **CAUTION:** Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.


AC adapter connector




Connects an AC adapter to the computer.




The AC adapter converts AC power to the DC power required by the computer. You can connect the AC adapter with your computer turned either on or off.


 **CAUTION:** The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to the power strip or electrical outlet may cause fire or equipment damage.

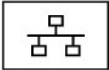
 **NOTICE:** When you disconnect the AC adapter cable from the computer, grasp the connector, not the cable itself, and pull firmly but gently to avoid damaging the cable. When you wrap the AC adapter cable, ensure that you follow the angle of the connector on the AC adapter to avoid damaging the cable.

USB connectors

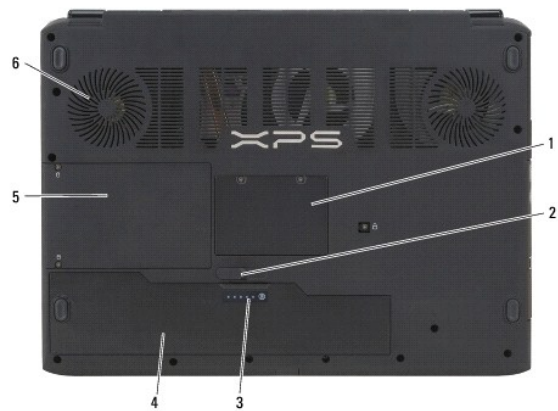
	Connect USB devices, such as a mouse, keyboard, or printer.
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network connector (RJ-45)

 **NOTICE:** To avoid damaging the computer, do not plug a telephone line into the network connector.

	Connects the computer to a network. The two lights next to the connector indicate status and activity for wired network connections. For information on using the network adapter, see the device user's guide supplied with your computer.
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Bottom View



1	memory module cover	2	battery-bay latch release
3	battery charge gauge/health gauge	4	battery
5	hard drive	6	air vents

memory module cover —

Covers the compartment that contains the memory module connectors.

battery-bay latch releases —

Release the battery.

battery charge gauge/health gauge —

Provides information on the battery charge (see [Checking the Battery Charge](#)).

battery —

When a battery is installed, you can use the computer without connecting the computer to an electrical outlet.

hard drive —

Stores software and data.

air vents —

The computer uses an internal fan to create airflow through the vents, which prevents the computer from overheating.



CAUTION: Do not block, push objects into, or allow dust to accumulate in the air vents. Do not store your computer in a low-airflow environment, such as a closed briefcase, while it is running. Restricting the airflow can damage the computer or cause a fire.

[Back to Contents Page](#)


[Back to Contents Page](#)

Appendix

Dell™ XPS™ M1730 Owner's Manual

- [Overview](#)
 - [Viewing the System Setup Screens](#)
 - [System Setup Screens](#)
 - [Commonly Used Options](#)
 - [FCC Notice \(U.S. Only\)](#)
 - [Macrovision Product Notice](#)
-

Overview

 **NOTE:** Your operating system may automatically configure most of the options available in the system setup program, thus overriding options that you set through the system setup program. (An exception is the **Fn Key Emulation** option, which you can disable or enable only through the system setup program.) For more information on configuring features for your operating system, access the Help and Support Center (see [Microsoft Windows XP and Windows Vista Help and Support Center](#)).


You can use the system setup program as follows:

- 1 To set or change user-selectable features—for example, your computer password
- 1 To verify information about the computer's current configuration, such as the amount of system memory

After you set up the computer, run the system setup program to familiarize yourself with your system configuration information and optional settings. You may want to write down the information for future reference.

The system setup screens display the current setup information and settings for your computer, such as:

- 1 System configuration
- 1 Boot order
- 1 Boot (start-up) configuration
- 1 Basic device-configuration settings
- 1 System security settings

 **NOTE:** Unless you are an expert computer user or are directed to do so by Dell technical support, do not change the system setup settings. Certain changes might make your computer work incorrectly.

Viewing the System Setup Screens

Verify the system setup entry procedure for your system (steps 1 and 2) with the project team.

1. Turn on (or restart) your computer.
 2. When the DELL™ logo appears, press <F2> immediately. If you wait too long and the Microsoft® Windows® logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.
-

System Setup Screens

 **NOTE:** For information about a specific item on a system setup screen, highlight the item and see the **Help** area on the screen.

On each screen, the system setup options are listed at the left. To the right of each option is the setting or value for that option. You can change settings that appear as white type on the screen. Options or values that you cannot change (because they are determined by the computer) appear less bright.


The upper-right corner of the screen displays help information for the currently highlighted option; the lower-right corner displays information about the computer. System-setup key functions are listed across the bottom of the screen.

Commonly Used Options

Certain options require that you reboot the computer for new settings to take effect.

Changing the Boot Sequence

The *boot sequence*, or *boot order*, tells the computer where to look to find the software needed to start the operating system. You can control the boot sequence and enable/disable devices using the **Boot Order** page of the system setup program.

 **NOTE:** To change the boot sequence on a one-time-only basis, see [Performing a One-Time Boot](#).

The **Boot Order** page displays a general list of the bootable devices that may be installed in your computer, including but not limited to the following:

- 1 **Diskette Drive**
- 1 **Modular bay HDD**
- 1 **Internal HDD**
- 1 **Optical Drive**

During the boot routine, the computer starts at the top of the list and scans each enabled device for the operating system start-up files. When the computer finds the files, it stops searching and starts the operating system.

To control the boot devices, select (highlight) a device by pressing the down-arrow or up-arrow key, and then enable or disable the device or change its order in the list.

- 1 To enable or disable a device, highlight the item and press the space bar. Enabled items appear as white and display a number next to them; disabled items appear blue or dimmed without a number.
- 1 To reorder a device in the list, highlight the device and then press <u> or <d> (not case-sensitive) to move the highlighted device up or down.

Boot sequence changes take effect as soon as you save the changes and exit the system setup program.

Performing a One-Time Boot

You can set a one-time-only boot sequence without entering the system setup program. (You can also use this procedure to boot the Dell Diagnostics on the diagnostics utility partition on your hard drive.)

1. Shut down the computer through the **Start** menu.
2. Connect the computer to an electrical outlet.
3. Turn on the computer. When the DELL logo appears, press <F12> immediately.

If you wait too long and the Windows logo appears, continue to wait until you see the Windows desktop. Then shut down your computer and try again.
4. When the boot device list appears, highlight the device from which you want to boot and press <Enter>.

The computer boots to the selected device.

The next time you reboot the computer, the previous boot order is restored.


FCC Notice (U.S. Only)

FCC Class B

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio and television reception. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

 **NOTICE:** The FCC regulations provide that changes or modifications not expressly approved by Dell Inc. could void your authority to operate this equipment.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:


- 1 Reorient the receiving antenna.
- 1 Relocate the system with respect to the receiver.
- 1 Move the system away from the receiver.

- 1 Plug the system into a different outlet so that the system and the receiver are on different branch circuits.

If necessary, consult a representative of Dell Inc. or an experienced radio/television technician for additional suggestions.

The following information is provided on the device or devices covered in this document in compliance with the FCC regulations:

Product name:	Dell™ XPS™ M1730
Model number:	PP06XA
Company name:	Dell Inc. Worldwide Regulatory Compliance & Environmental Affairs One Dell Way Round Rock, TX 78682 USA 512-338-4400

 **NOTE:** For further regulatory information, see your *Product Information Guide*.

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[Back to Contents Page](#)

[Back to Contents Page](#)

Using a Battery


Dell™ XPS™ M1730 Owner's Manual

- [Battery Performance](#)
- [Checking the Battery Charge](#)
- [Conserving Battery Power](#)
- [Power Management Modes](#)
- [Configuring Power Management Settings](#)
- [Charging the Battery](#)
- [Removing the Battery](#)
- [Storing a Battery](#)


Battery Performance


 **NOTE:** For information about the Dell warranty for your computer, see the *Product Information Guide* or separate paper warranty document that shipped with your computer.

For optimal computer performance and to help preserve BIOS settings, operate your Dell™ portable computer with the main battery installed at all times. One battery is supplied as standard equipment in the battery bay.

 **NOTE:** Because the battery may not be fully charged, use the AC adapter to connect your new computer to an electrical outlet the first time you use the computer. For best results, operate the computer with the AC adapter until the battery is fully charged. To view battery charge status, check the Power Meter in Power Options Properties (see [Accessing Power Options Properties](#)).

Battery operating time varies depending on operating conditions.


 **NOTE:** Battery operating time (the time the battery can hold a charge) decreases over time. Depending on how often the battery is used and the conditions under which it is used, you may need to purchase a new battery during the life of your computer.


 **NOTE:** It is recommended that you connect your computer to an electrical outlet when writing to a CD or DVD.


Operating time is significantly reduced when you perform operations including, but not limited to, the following:

- 1 Using optical drives.
- 1 Using wireless communications devices, Express Cards, media memory cards, or USB devices.
- 1 Using high-brightness display settings, 3D screen savers, or other power-intensive programs such as complex 3D graphics applications.
- 1 Running the computer in maximum performance mode. See [Configuring Power Management Settings](#) for information about accessing Windows Power Options Properties or Dell QuickSet, which you can use to configure power management settings.


You can check the battery charge before you insert the battery into the computer. You can also set power management options to alert you when the battery charge is low.

 **CAUTION:** Using an incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell. The battery is designed to work with your Dell computer. Do not use a battery from other computers with your computer.

 **CAUTION:** Do not dispose of batteries with household waste. When your battery no longer holds a charge, call your local waste disposal or environmental agency for advice on disposing of a lithium-ion battery. See "Battery Disposal" in the *Product Information Guide*.

 **CAUTION:** Misuse of the battery may increase the risk of fire or chemical burn. Do not puncture, incinerate, disassemble, or expose the battery to temperatures above 65°C (149°F). Keep the battery away from children. Handle damaged or leaking batteries with extreme care. Damaged batteries may leak and cause personal injury or equipment damage.

Checking the Battery Charge


The Dell QuickSet Battery Meter, the Microsoft Windows **Battery Meter** window and  icon, the battery charge gauge and health gauge, and the low-battery warning provide information on the battery charge.


Dell™ QuickSet Battery Meter

If Dell QuickSet is installed, press <Fn><F3> to display the QuickSet Battery Meter. The Battery Meter displays status, battery health, charge level, and charge completion time for the battery in your computer.

For more information about QuickSet, right-click the QuickSet icon in the taskbar, and click **Help**.

Microsoft® Windows® Battery Meter

The battery meter indicates the remaining battery charge. To check the Power Meter, double-click the  icon on the taskbar.

If the computer is connected to an electrical outlet, a  icon appears.

Charge Gauge

By either pressing once or *pressing and holding* the status button on the charge gauge on the battery, you can check:


- 1 Battery charge (check by pressing and *releasing* the status button)
- 1 Battery health (check by pressing and *holding* the status button)

The battery operating time is largely determined by the number of times it is charged. After hundreds of charge and discharge cycles, batteries lose some charge capacity—or battery health. That is, a battery can show a status of "charged" but maintain a reduced charge capacity (health).

Check the Battery Charge


To check the battery charge, *press and release* the status button on the battery charge gauge to illuminate the charge-level lights. Each light represents approximately 20 percent of the total battery charge. For example, if the battery has 80 percent of its charge remaining, four of the lights are on. If no lights appear, the battery has no charge.

Check the Battery Health

 **NOTE:** You can check battery health in one of two ways: by using the charge gauge on the battery as described below and by using the Battery Meter in Dell QuickSet. For information about QuickSet, right-click the icon in the taskbar, and click **Help**.

To check the battery health using the charge gauge, *press and hold the status button on the battery charge gauge for at least 3 seconds*. If no lights appear, the battery is in good condition, and more than 80 percent of its original charge capacity remains. Each light represents incremental degradation. If five lights appear, less than 60 percent of the charge capacity remains, and you should consider replacing the battery.

Low-Battery Warning

 **NOTICE:** To avoid losing or corrupting data, save your work immediately after a low-battery warning. Then connect the computer to an electrical outlet. If the battery runs completely out of power, hibernate mode begins automatically.

A pop-up window warns you when the battery charge is approximately 90 percent depleted. The computer enters hibernate mode when the battery charge is at a critically low level.

You can change the settings for the battery alarms in QuickSet or the **Power Options Properties** window. See [Configuring Power Management Settings](#) for information about accessing QuickSet or the **Power Options Properties** window.

Conserving Battery Power

Perform the following actions to conserve battery power:


- 1 Connect the computer to an electrical outlet when possible because battery life is largely determined by the number of times the battery is used and recharged.
- 1 Place the computer in standby mode or hibernate mode when you leave the computer unattended for long periods of time. See [Power Management Modes](#).
- 1 Use the Power Management Wizard or the **Power Options Properties** window to select options to optimize your computer's power usage. These options can also be set to change when you press the power button, close the display, or press <Fn><Esc>.

 **NOTE:** See [Configuring Power Management Settings](#) for information on conserving battery power.

Power Management Modes


Standby and Sleep Mode

Standby mode (sleep mode in Microsoft Windows Vista™) conserves power by turning off the display and the hard drive after a predetermined period of inactivity (a time-out). When the computer exits standby or sleep mode, it returns to the same operating state it was in before entering standby or sleep mode.

 **NOTICE:** If your computer loses AC and battery power while in standby or sleep mode, it may lose data.

To enter standby mode in *Windows XP*, click **Start**→ **Turn off computer**→ **Stand by**.

To enter sleep mode in *Windows Vista*, click the Windows Vista Start button , and then click **Sleep**.

 **NOTE:** If your computer is not responding, pressing and holding the power button for more than 10 seconds turns it off.


Depending on how you set the power management options in the **Power Options Properties** window or the QuickSet Power Management Wizard, you may also use one of the following methods:

- 1 Close the display.
- 1 Press <Fn><Esc>.

To exit standby or sleep mode, press the power button or open the display, depending on how you set the power management options. You cannot make the computer exit standby or sleep mode by pressing a key or touching the touch pad.

Hibernate Mode

Hibernate mode conserves power by copying system data to a reserved area on the hard drive and then completely turning off the computer. When the computer exits hibernate mode, it returns to the same operating state it was in before entering hibernate mode.

 **NOTICE:** You cannot remove devices or undock your computer while your computer is in hibernate mode.


Your computer enters hibernate mode if the battery charge level becomes critically low.

To enter hibernate mode in *Windows XP*, click the **Start** button, click **Turn off computer**, press and hold <Shift>, and then click **Hibernate**.

To enter hibernate mode in *Windows Vista*, click the Windows Vista Start button , and then click **Hibernate**.

Depending on how you set the power management options in the **Power Options Properties** window or the QuickSet Power Management Wizard, you may also use one of the following methods to enter hibernate mode:

- 1 Press the power button.
- 1 Close the display.
- 1 Press <Fn><Esc>.

 **NOTE:** Some PC Cards or Express Cards may not operate correctly after the computer exits hibernate mode. Remove and reinsert the card (see [Removing an ExpressCard or Blank](#)), or simply restart (reboot) your computer.

To exit hibernate mode, press the power button. The computer may take a short time to exit hibernate mode. You cannot make the computer exit hibernate mode by pressing a key or touching the touch pad. For more information on hibernate mode, see the documentation that came with your operating system.

Configuring Power Management Settings

You can use the QuickSet Power Management Wizard or Windows Power Options Properties to configure the power management settings on your computer. For more information about QuickSet, right-click the QuickSet icon in the taskbar and click **Help**.

Accessing Power Options Properties

Windows XP

Click **Start**→ **Control Panel**→ **Performance and Maintenance**, and then click **Power Options**

Windows Vista


Click the Windows Vista Start button , click **Control Panel**, click **System and Maintenance**, and then click **Power Options**.

Charging the Battery

When you connect the computer to an electrical outlet or install a battery while the computer is connected to an electrical outlet, the computer checks the battery charge and temperature. If necessary, the AC adapter then charges the battery and maintains the battery charge.


 **NOTE:** You can leave the battery in the computer for as long as you like. The battery's internal circuitry prevents the battery from overcharging.


If the battery is hot from being used in your computer or being in a hot environment, the battery may not charge when you connect the computer to an electrical outlet.

The battery is too hot to start charging if the  light flashes alternately blue and orange. Disconnect the computer from the electrical outlet and allow the computer and the battery to cool to room temperature. Then connect the computer to an electrical outlet to continue charging the battery.


For information about resolving problems with a battery, see [Power Problems](#).

Removing the Battery

 **CAUTION:** Using an incompatible battery may increase the risk of fire or explosion. Replace the battery only with a compatible battery purchased from Dell. The battery is designed to work with your Dell™ computer. Do not use a battery from other computers with your computer.

 **CAUTION:** Before performing these procedures, turn off the computer, disconnect the AC adapter from the electrical outlet and the computer, disconnect the modem from the wall connector and computer, and remove any other external cables from the computer.

 **NOTICE:** You must remove all external cables from the computer to avoid possible connector damage.

 **NOTICE:** Do not replace the battery with the computer in standby mode. If you do, the computer shuts down and loses any unsaved data.

To remove the battery:

1. Ensure that the computer is turned off.
2. Slide the battery-bay latch release on the bottom of the computer, and then remove the battery from the bay.

To replace the battery, follow the removal procedure in reverse order.

Storing a Battery

Remove the battery when you store your computer for an extended period of time. A battery discharges during prolonged storage. After a long storage period, recharge the battery fully (see [Charging the Battery](#)) before you use it.

[Back to Contents Page](#)


[Back to Contents Page](#)

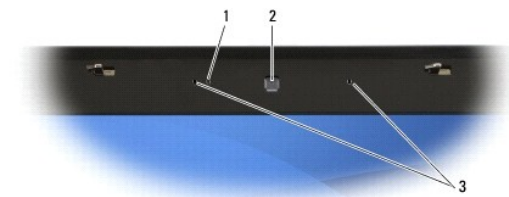
Using the Camera

Dell™ XPS™ M1730 Owner's Manual

- [Accessing the Camera's Help File](#)
- [Manually Adjusting the Camera Settings](#)
- [Creating a Picture or a Video](#)


The camera is integrated in the computer display. The camera and its integrated digital microphones allow you to take photos and videos and to communicate visually and verbally with other computer users. The blue camera light appears when the camera is turned on. For more information about camera features, see [Specifications](#).

 **NOTE:** It is normal for the camera to feel warm to the touch when the computer is running and when the camera is in use.



1	camera	2	camera indicator	3	digital microphones (2)
---	--------	---	------------------	---	-------------------------


Accessing the Camera's Help File

To access the camera's *Video Software Help* file, right-click the  icon in the notification area and click **Launch Webcam Center**. Click **Help** from the menu and select **Contents**.



Manually Adjusting the Camera Settings

If you do not want the camera to use automatic settings, you can manually adjust the camera settings.

1. Right-click the  icon in the notification area and click **Launch Webcam Console**.
2. In the **Webcam Console** window:
 - 1 Click the **Camera** tab to adjust video settings, such as contrast and brightness.
 - 1 Click the **Effects** tab to adjust audio settings, such as the volume level.

For more information about camera settings and other camera-related topics, see the camera's *Video Software Help* file (see [Accessing the Camera's Help File](#)).

Creating a Picture or a Video

1. Click the  icon in the notification area and click **QuickCapture**.

The **QuickCapture** window appears and the blue camera light turns on. You can now direct the camera to point at the object or person that you want to record. The **QuickCapture** window on the screen shows you the camera target view.

2. To take a picture, click **Take a Picture**.

To record a video, click **Record a Video**.

Unless you designate a different location, the picture or video is automatically saved to the **My Pictures** folder on your hard drive.

For more information about creating pictures or videos, see the camera's *Video Software Help* file (see [Accessing the Camera's Help File](#)).

[Back to Contents Page](#)

Using Cards

Dell™ XPS™ M1730 Owner's Manual

- [ExpressCards](#)
- [Memory Card Reader](#)

ExpressCards

ExpressCards provide additional memory, wired and wireless communications, multimedia and security features. For example, you can add an ExpressCard to make wireless wide area network (WWAN) connectivity available on your computer.

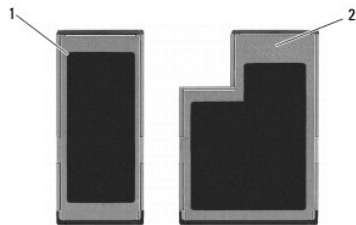
ExpressCards support two form factors:

- 1 ExpressCard/34 (34 mm wide)
- 1 ExpressCard/54 (54 mm wide in an L-shape with a 34 mm connector)

The 34 mm card fits into both the 34 mm and 54 mm card slots. The 54 mm card only fits into a 54 mm card slot.

See [Specifications](#) for information on supported ExpressCards.

 **NOTE:** An ExpressCard is not a bootable device.



1	ExpressCard/34	2	ExpressCard/54
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ExpressCard Blanks

Your computer shipped with a plastic blank installed in the ExpressCard slot. Blanks protect unused slots from dust and other particles. Save the blank for use when no ExpressCard is installed in the slot; blanks from other computers may not fit your computer.

Remove the blank before installing an ExpressCard. To remove the blank, see [Removing an ExpressCard or Blank](#).

Installing an ExpressCard

You can install an ExpressCard while the computer is running. The computer automatically detects the card.

ExpressCards are generally marked with a symbol (such as a triangle or an arrow) or a label to indicate which end to insert into the slot. The cards are keyed to prevent incorrect insertion. If card orientation is not clear, see the documentation that came with the card.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

To install an ExpressCard:


1. Hold the card with the top side of the card facing up.
2. Slide the card into the slot until the card is completely seated in its connector.

If you encounter too much resistance, do not force the card. Check the card orientation and try again.



The computer recognizes the ExpressCard and automatically loads the appropriate device driver. If the configuration program tells you to load the manufacturer's drivers, use the media that came with the ExpressCard.

Removing an ExpressCard or Blank

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.


Press the latch and remove the card or blank. For some latches, you must press the latch twice, once to pop the latch out, and then a second time to pop the card out.

Save a blank to use when no ExpressCard is installed in a slot. Blanks protect unused slots from dust and other particles.



Memory Card Reader

The memory card reader provides a fast and convenient way to view and share digital photos, music, and videos stored on a memory card.

 **NOTE:** A memory card is not a bootable device.

The 8-in-1 memory card reader reads the following memory cards:

- 1 Secure Digital (SD)
- 1 SDIO
- 1 MultiMediaCard (MMC)
- 1 Memory Stick
- 1 Memory Stick PRO
- 1 xD-Picture Card
- 1 Hi Speed-SD
- 1 Hi Density-SD

Memory Card Blanks


Your computer shipped with a plastic blank installed in the memory card reader. Blanks protect unused slots from dust and other particles. Save the blank for use when no media memory card is installed in the slot; blanks from other computers may not fit your computer.

Remove the blank before installing a media memory card. To remove the blank, see [Removing a Memory Card or Blank](#).

Installing a Memory Card

You can install a media memory card in the computer while the computer is running. The computer automatically detects the card.

Memory cards are generally marked with a symbol (such as a triangle or an arrow) or a label to indicate which end to insert into the slot. The cards are keyed to prevent incorrect insertion. If card orientation is not clear, see the documentation that came with the card.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

To install a memory card:


1. Hold the card with the top side of the card facing up.
2. Slide the card into the slot until the card is completely seated in its connector.



If you encounter too much resistance, do not force the card. Check the card orientation and try again.



The computer recognizes the memory card and automatically loads the appropriate device driver. If the configuration program tells you to load the manufacturer's drivers, use the media that came with the memory card, if applicable.

Removing a Memory Card or Blank

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTICE:** Use the memory card configuration utility (click the  icon in the notification area) to select a card and stop it from functioning before you remove it from the computer. If you do not stop the card in the configuration utility, you could lose data.

Press the card into the slot to release it from the card reader. When it is partially ejected, remove the card.


[Back to Contents Page](#)


Cleaning Your Computer

Dell™ XPS™ M1730 Owner's Manual


 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Computer, Keyboard, and Display

 **CAUTION:** Before you clean your computer, disconnect the computer from the electrical outlet and remove any installed batteries. Clean your computer with a soft cloth dampened with water. Do not use liquid or aerosol cleaners, which may contain flammable substances.


 **NOTICE:** Do not use cleaning agents with ammonia as an ingredient.

- 1 Use a can of compressed air to remove dust from between the keys on the keyboard.

 **NOTICE:** To avoid damaging the computer or display, do not spray cleaning solution directly onto the display. Only use products specifically designed for cleaning displays, and follow the instructions that are included with the product.


- 1 Moisten a soft, lint-free cloth with either water or a display cleaner, and wipe the display until it is clean.
- 1 Moisten a soft, lint-free cloth with water and wipe the computer and keyboard. Do not allow water from the cloth to seep between the touch pad and the surrounding palm rest.

CDs, DVDs and BDs

 **NOTICE:** Always use compressed air to clean the lens in the CD/DVD and BD drive, and follow the instructions that come with the compressed-air product. Never touch the lens in the drive.

If you notice problems, such as skipping, with the playback quality of your CDs, DVDs or BDs, try cleaning the discs.

1. Hold the disc by its outer edge. You can also touch the inside edge of the center hole.

 **NOTICE:** To avoid damaging the surface, do not wipe in a circular motion around the disc.

2. With a soft, lint-free cloth, gently wipe the bottom of the disc (the unlabeled side) in a straight line from the center to the outer edge of the disc.

For stubborn dirt, try using water or a diluted solution of water and mild soap. You can also purchase commercial products that clean discs and provide some protection from dust, fingerprints, and scratches. Cleaning products for CDs are also safe to use on DVDs and BDs.


[Back to Contents Page](#)

Getting Help

Dell™ XPS™ M1730 Owner's Manual


- [Obtaining Assistance](#)
 - [Problems With Your Order](#)
 - [Product Information](#)
 - [Returning Items for Warranty Repair or Credit](#)
 - [Before You Call](#)
 - [Contacting Dell](#)
-

Obtaining Assistance

 **CAUTION:** If you need to remove the computer cover, first disconnect the computer power and modem cables from all electrical outlets.

If you experience a problem with your computer, you can complete the following steps to diagnose and troubleshoot the problem:


1. See [Troubleshooting](#) for information and procedures that pertain to the problem your computer is experiencing.
2. See [Dell Diagnostics](#) for procedures on how to run Dell Diagnostics.
3. Fill out the [Diagnostics Checklist](#).
4. Use Dell's extensive suite of online services available at Dell Support (support.dell.com) for help with installation and troubleshooting procedures. See [Online Services](#) for a more extensive list of Dell Support online.
5. If the preceding steps have not resolved the problem, see [Contacting Dell](#).

 **NOTE:** Call Dell Support from a telephone near or at the computer so that the support staff can assist you with any necessary procedures.

NOTE: Dell's Express Service Code system may not be available in all countries.

When prompted by Dell's automated telephone system, enter your Express Service Code to route the call directly to the proper support personnel. If you do not have an Express Service Code, open the **Dell Accessories** folder, double-click the **Express Service Code** icon, and follow the directions.

For instructions on using the Dell Support, see [Technical Support and Customer Service](#).

 **NOTE:** Some of the following services are not always available in all locations outside the continental U.S. Call your local Dell representative for information on availability.

Technical Support and Customer Service

Dell's support service is available to answer your questions about Dell™ hardware. Our support staff uses computer-based diagnostics to provide fast, accurate answers.

To contact Dell's support service, see [Before You Call](#), and then see the contact information for your region or go to support.dell.com.

DellConnect

DellConnect is a simple online access tool that allows a Dell service and support associate to access your computer through a broadband connection, diagnose your problem and repair it all under your supervision. For more information, go to support.dell.com and click DellConnect.

Online Services

You can learn about Dell products and services on the following websites:

www.dell.com

www.dell.com/ap (Asian/Pacific countries only)

www.dell.com/jp (Japan only)

www.euro.dell.com (Europe only)

www.dell.com/la (Latin American and Caribbean countries)

www.dell.ca (Canada only)

You can access Dell Support through the following websites and e-mail addresses:

- 1 Dell Support websites

support.dell.com

support.jp.dell.com (Japan only)

support.euro.dell.com (Europe only)

- 1 Dell Support e-mail addresses

mobile_support@us.dell.com

support@us.dell.com

la-techsupport@dell.com (Latin America and Caribbean countries only)

apsupport@dell.com (Asian/Pacific countries only)

- 1 Dell Marketing and Sales e-mail addresses

apmarketing@dell.com (Asian/Pacific countries only)

sales_canada@dell.com (Canada only)

- 1 Anonymous file transfer protocol (FTP)

ftp.dell.com

Log in as user: `anonymous`, and use your e-mail address as your password.

AutoTech Service

Dell's automated support service—AutoTech—provides recorded answers to the questions most frequently asked by Dell customers about their portable and desktop computers.

When you call AutoTech, use your touch-tone telephone to select the subjects that correspond to your questions. For the telephone number to call for your region, see [Contacting Dell](#).

Automated Order-Status Service

To check on the status of any Dell products that you have ordered, you can go to **support.dell.com**, or you can call the automated order-status service. A recording prompts you for the information needed to locate and report on your order. For the telephone number to call for your region, see [Contacting Dell](#).

Problems With Your Order

If you have a problem with your order, such as missing parts, wrong parts, or incorrect billing, contact Dell for customer assistance. Have your invoice or packing slip handy when you call. For the telephone number to call for your region, see [Contacting Dell](#).

Product Information

If you need information about additional products available from Dell, or if you would like to place an order, visit the Dell website at **www.dell.com**. For the telephone number to call for your region or to speak to a sales specialist, see the [Contacting Dell](#).

Returning Items for Warranty Repair or Credit

Prepare all items being returned, whether for repair or credit, as follows:

1. Call Dell to obtain a Return Material Authorization Number, and write it clearly and prominently on the outside of the box.

For the telephone number to call for your region, see [Contacting Dell](#).

2. Include a copy of the invoice and a letter describing the reason for the return.


3. Include a copy of the Diagnostics Checklist (see [Diagnostics Checklist](#)), indicating the tests that you have run and any error messages reported by the Dell Diagnostics (see [Dell Diagnostics](#)).

4. Include any accessories that belong with the item(s) being returned (power cables, software floppy disks, guides, and so on) if the return is for credit.
5. Pack the equipment to be returned in the original (or equivalent) packing materials.


You are responsible for paying shipping expenses. You are also responsible for insuring any product returned, and you assume the risk of loss during shipment to Dell. Collect On Delivery (C.O.D.) packages are not accepted.

Returns that are missing any of the preceding requirements will be refused at Dell's receiving dock and returned to you.

Before You Call


 **NOTE:** Have your Express Service Code ready when you call. The code helps Dell's automated-support telephone system direct your call more efficiently. You may also be asked for your Service Tag (located in the battery bay of your computer).

Remember to fill out the Diagnostics Checklist (see [Diagnostics Checklist](#)). If possible, turn on your computer before you call Dell for assistance and call from a telephone at or near the computer. You may be asked to type some commands at the keyboard, relay detailed information during operations, or try other troubleshooting steps possible only at the computer itself. Ensure that the computer documentation is available.

 **CAUTION:** Before working inside your computer, follow the safety instructions in your *Product Information Guide*.

Diagnostics Checklist
Name:
Date:
Address:
Phone number:
Service Tag (bar code in the battery bay of the computer):
Express Service Code:
Return Material Authorization Number (if provided by Dell support technician):
Operating system and version:
Devices:
Expansion cards:
Are you connected to a network? Yes No
Network, version, and network adapter:
Programs and versions:
See your operating system documentation to determine the contents of the system's start-up files. If the computer is connected to a printer, print each file. Otherwise, record the contents of each file before calling Dell.
Error message, beep code, or diagnostic code:
Description of problem and troubleshooting procedures you performed:

Contacting Dell

 **NOTE:** If you do not have an active Internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.

Dell provides several online and telephone-based support and service options. Because availability varies by country and product, some services may not be available in your area. To contact Dell for sales, technical support, or customer service issues:

1. Visit www.support.dell.com.
2. At the bottom of the page, verify your country or region.
3. Locate and click **Contact Us** on the left side of the page.
4. Select the appropriate service or support link based on your need.
5. Choose the method of contacting Dell that is convenient for you.

[Back to Contents Page](#)


Using the Display

Dell™ XPS™ M1730 Owner's Manual

- [Adjusting Brightness](#)
 - [Using a Projector](#)
 - [Making Images and Text Look Bigger or Sharper](#)
 - [Setting Display Resolution and Refresh Rate](#)
-

Adjusting Brightness

When a Dell™ computer is running on battery power, you can conserve power by setting the display brightness to the lowest comfortable setting by pressing <Fn> and the up- or down-arrow key on the keyboard.

 **NOTE:** Brightness key combinations only affect the display on your portable computer, not monitors or projectors that you attach to your portable computer. If your computer is connected to an external monitor and you try to change the brightness level, the Brightness Meter may appear, but the brightness level on the external device does not change.

You can press the following keys to adjust display brightness:


1. Press <Fn> and the up-arrow key to increase brightness on the integrated display only (not on an external monitor).
 1. Press <Fn> and the down-arrow key to decrease brightness on the integrated display only (not on an external monitor).
-

Using a Projector


When you start the computer with an external device (such as an external monitor or projector) attached and turned on, the image may appear on either the computer display or the external device.

Press <Fn><F8> to switch the video image between the display only or the external device only.

Making Images and Text Look Bigger or Sharper

 **NOTE:** If you change the display resolution from the current settings, the image may appear blurry or text may be hard to read if you change the resolution to one not supported by your computer and display. Before you change any of the display settings, make a note of the current settings so you can change back to the previous settings if you need to.

You can enhance the legibility of text and change the appearance of images on the screen by adjusting display resolution. As you increase resolution, items appear smaller on the screen. In contrast, lower resolution causes text and images to appear larger and can benefit people with vision impairments. To display a program at a specific resolution, both the video card and the display must support the program, and the necessary video drivers must be installed.

 **NOTE:** Use only the Dell-installed video drivers, which are designed to offer the best performance with your Dell-installed operating system.

If you choose a resolution or color palette that is higher than the display supports, the settings adjust automatically to the closest supported values.


To set the display resolution and refresh rate for your display, perform the steps in the following section that corresponds to the operating system your computer is using.

Microsoft® Windows® XP


1. Click **Start**→ **Settings**→ **Control Panel**.
2. Under **Pick a category**, click **Appearance and Themes**.
3. Under **Pick a task...**, click the area you want to change, or under **or pick a Control Panel icon**, click **Display**.
4. In the **Display Properties** window, click the **Settings** tab.
5. Try different settings for **Color quality** and **Screen resolution**.

 **NOTE:** As the resolution increases, icons and text appear smaller on the screen.


Windows Vista™

1. Click the Windows Vista Start button  , and click **Control Panel**.
 2. Under **Appearance and Personalization**, click **Adjust screen resolution**.
 3. In the **Display Settings** window, under **Resolution**, slide the slide bar to the left/right to decrease/increase the screen resolution.
 4. Click **How do I get the best display?** for further instructions.
-

Setting Display Resolution and Refresh Rate

 **NOTE:** If you change the display resolution from the current settings, the image may appear blurry or text may be hard to read if you change the resolution to one not supported by your computer and display. Before you change any of the display settings, make a note of the current settings so you can change back to the previous settings if needed.

You can enhance the legibility of text and change the appearance of images on the screen by adjusting display resolution. As you increase resolution, items appear smaller on the screen. In contrast, lower resolution causes text and images to appear larger and can benefit people with vision impairments. To display a program at a specific resolution, both the video card and the display must support the program, and the necessary video drivers must be installed.


 **NOTE:** Use only the Dell-installed video drivers, which are designed to offer the best performance with your Dell-installed operating system.

If you choose a resolution or color palette that is higher than the display supports, the settings adjust automatically to the closest supported values.


To set the display resolution and refresh rate for your display, perform the steps in the following section that corresponds to the operating system your computer is using.


Microsoft Windows XP

1. Click **Start→ Settings→ Control Panel**.
2. Under **Pick a category**, click **Appearance and Themes**.
3. Under **Pick a task...**, click the area you want to change, or under **or pick a Control Panel icon**, click **Display**.
4. In the **Display Properties** window, click the **Settings** tab.
5. Try different settings for **Color quality** and **Screen resolution**.

 **NOTE:** As the resolution increases, icons and text appear smaller on the screen.

Windows Vista

1. Click the Windows Vista Start button  and click **Control Panel**.
2. Under **Appearance and Personalization**, click **Adjust screen resolution**.
3. In the **Display Settings** window, under **Resolution**, move the slide bar to the left or right to decrease or increase the screen resolution.

 **NOTE:** For additional instructions, click **How do I get the best display?**


[Back to Contents Page](#)




Dell™ XPS™ M1730 Owner's Manual





● [Finding Information](#)

Finding Information

 **NOTE:** Some features or media may be optional and may not ship with your computer. Some features or media may not be available in certain countries.

 **NOTE:** Additional information may ship with your computer.

What Are You Looking For?	Find It Here
<ul style="list-style-type: none">1 A diagnostic program for my computer1 Drivers for my computer1 My device documentation1 Notebook System Software (NSS)	<p>Drivers and Utilities Media</p> <p>Documentation and drivers are already installed on your computer. You can use the media to reinstall drivers (see Reinstalling Drivers and Utilities), to run the Dell Diagnostics (see Dell Diagnostics), or to access your documentation.</p> <p>Readme files may be included on your media to provide last-minute updates about technical changes to your computer or advanced technical-reference material for technicians or experienced users.</p>  <p>NOTE: Drivers and documentation updates can be found at support.dell.com.</p>
<ul style="list-style-type: none">1 Warranty information1 Terms and Conditions (U.S. only)1 Safety instructions1 Regulatory information1 Ergonomics information1 End User License Agreement	<p>Dell™ Product Information Guide</p> 
<ul style="list-style-type: none">1 How to set up my computer	<p>Setup Diagram</p> <p>NOTE: The appearance of your setup diagram may vary.</p> 
<ul style="list-style-type: none">1 Service Tag and Express Service Code	<p>Service Tag and Microsoft® Windows® License</p> <p>This label is located in the battery bay of your computer.</p> <ul style="list-style-type: none">1 Use the Service Tag to identify your computer when you use support.dell.com or contact support.1 Enter the Express Service Code to direct your call when contacting support.

	
<ul style="list-style-type: none"> 1 Microsoft Windows License Label 	<p>The label is located on the memory module cover at the bottom of the system.</p> <p>NOTE: If your operating system is Windows XP, this label might look different.</p>  <p>NOTE: As an increased security measure, the newly designed Microsoft Windows license label incorporates a missing portion or "hole" to discourage removal of the label.</p>
<ul style="list-style-type: none"> 1 Solutions — Troubleshooting hints and tips, articles from technicians, and online courses, frequently asked questions 1 Community — Online discussion with other Dell customers 1 Upgrades — Upgrade information for components, such as memory, the hard drive, and the operating system 1 Customer Care — Contact information, service call and order status, warranty, and repair information 1 Service and support — Service call status and support history, service contract, online discussions with technical support 1 Dell Technical Update Service — Proactive e-mail notification of software and hardware updates for your computer 1 Reference — Computer documentation, details on my computer configuration, product specifications, and white papers 1 Downloads — Certified drivers, patches, and software updates 	<p>Dell Support Website — support.dell.com</p> <p>NOTE: Select your region or business segment to view the appropriate support site.</p>
<ul style="list-style-type: none"> 1 Notebook System Software (NSS)— If you reinstall the operating system for your computer, you should also reinstall the NSS utility. NSS provides critical updates for your operating system and support for processors, optical drives, USB devices, and so on. NSS is necessary for correct operation of your Dell computer. The software automatically detects your computer and operating system and installs the updates appropriate for your configuration. 	<p>To download Notebook System Software:</p> <ol style="list-style-type: none"> 1. Go to support.dell.com and click Drivers & Downloads. 2. Enter your Service Tag or Product Type and Product Model, and click Go. 3. Scroll to System and Configuration Utilities→ Dell Notebook System Software and click Download Now. 4. Select Drivers & Downloads and click Go. <p>NOTE: The support.dell.com user interface may vary depending on your selections.</p>
<ul style="list-style-type: none"> 1 Software upgrades and troubleshooting hints — Frequently asked questions, hot topics, and general health of your computing environment 	<p>Dell Support Utility</p> <p>The Dell Support Utility is an automated upgrade and notification system installed on your computer. This support provides real-time health scans of your computing environment, software updates, and relevant self-support information. Access the Dell Support Utility from the  icon in the taskbar. For more information, see Dell Support Utility.</p>
<ul style="list-style-type: none"> 1 How to use Windows XP or Windows Vista™ 1 How to work with programs and files 1 How to personalize my desktop 	<p>Microsoft Windows XP and Windows Vista Help and Support Center</p> <ol style="list-style-type: none"> 1. Click Start→ Help and Support. 2. Type a word or phrase that describes your problem and click the arrow icon. 3. Click the topic that describes your problem. 4. Follow the instructions on the screen.
<ul style="list-style-type: none"> 1 Information on network activity, the Power Management Wizard, hotkeys, and other items controlled by Dell QuickSet. 1 How to change the LED colors for the zones, play various LED effects (like strobe lights, breathing lights, rotating lights), enable or disable visualization plugins for select music players 	<p>Dell QuickSet Help</p> <p>To view <i>Dell QuickSet Help</i>, right-click the QuickSet icon in the Microsoft® Windows® taskbar, and select Help. The taskbar is located in the lower-right corner of your screen.</p>
<ul style="list-style-type: none"> 1 How to reinstall my operating system 	<p>Operating System Media</p> <p>The operating system is already installed on your computer. To reinstall your operating system, use the <i>Operating System</i> media. See Restoring Your Operating System in your <i>Owner's Manual</i>.</p> 

After you reinstall your operating system, use the *Drivers and Utilities* media to reinstall drivers for the devices that came with your computer.

[Your operating system product key label is located on your computer.](#)

NOTE: The color of your DVD varies based on the operating system you ordered.


[Back to Contents Page](#)

Using GamePanel

Dell™ XPS™ M1730 Owner's Manual

● [GamePanel Applications](#)

The Logitech® GamePanel™ is a small secondary monochrome LCD for displaying text and graphical information located at the top right hand corner of the dashboard. This shows important gaming information such as frames per second, health and so on, without cluttering the main display. It can also display non-gaming information such as memory utilization, CPU utilization, and so on.

You can modify the GamePanel settings through the LCD Manager. To access the LCD Manager, click **Start**  → **All Programs** → **Logitech** → **Launch LCD Manager**.



1	GamePanel	2	GamePanel toggle button	3	GamePanel control buttons
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The GamePanel toggle button lets you toggle among the various applications provided by the GamePanel.

You can use the first two buttons of the GamePanel control buttons to navigate between values and options in the LCD Manager tabs. The third and fourth buttons are used for confirming and cancelling the value selections respectively.

For more information on using the GamePanel, see the Help in the LCD Manager interface.

GamePanel Applications

The GamePanel has the following applications:

- 1 A clock with integrated counter for unread mail
- 1 A multimedia display which shows the track/artist/URL of currently playing multimedia for Windows Media Player, iTunes and Winamp.
- 1 A countdown application, which offers stopwatch and egg timer functionality.
- 1 A performance monitor, which graphs the CPU and memory utilization.
- 1 A POP3 email application, which periodically checks the content of a POP3 mail account and allows a preview of new/unread email.

Glossary

Dell™ XPS™ M1730 Owner's Manual

Terms in this Glossary are provided for informational purposes only and may or may not describe features included with your particular computer.

A

AC — alternating current — The form of electricity that powers your computer when you plug the AC adapter power cable in to an electrical outlet.

ACPI — advanced configuration and power interface — A power management specification that enables Microsoft® Windows® operating systems to put a computer in standby or hibernate mode to conserve the amount of electrical power allocated to each device attached to the computer.

AGP — accelerated graphics port — A dedicated graphics port that allows system memory to be used for video-related tasks. AGP delivers a smooth, true-color video image because of the faster interface between the video circuitry and the computer memory.

AHCI — Advanced Host Controller Interface — An interface for a SATA hard drive Host Controller which allows the storage driver to enable technologies such as Native Command Queuing (NCQ) and hot plug.

ALS — ambient light sensor — A feature that helps to control display brightness.

antivirus software — A program designed to identify, quarantine, and/or delete viruses from your computer.

ASF — alert standards format — A standard to define a mechanism for reporting hardware and software alerts to a management console. ASF is designed to be platform- and operating system-independent.

B

battery life span — The length of time (years) during which a portable computer battery is able to be depleted and recharged.

battery operating time — The length of time (minutes or hours) that a portable computer battery powers the computer.

BIOS — basic input/output system — A program (or utility) that serves as an interface between the computer hardware and the operating system. Unless you understand what effect these settings have on the computer, do not change them. Also referred to as *system setup*.

bit — The smallest unit of data interpreted by your computer.

Blu-ray Disc™ (BD) — An optical storage technology offering storage capacity of up to 50 GB, full 1080p video resolution (HDTV required), and as many as 7.1 channels of native, uncompressed surround sound.

Bluetooth® wireless technology — A wireless technology standard for short-range (9 m [29 feet]) networking devices that allows for enabled devices to automatically recognize each other.

boot sequence — Specifies the order of the devices from which the computer attempts to boot.

bootable media — A CD, DVD, or floppy disk that you can use to start your computer. In case your hard drive is damaged or your computer has a virus, ensure that you always have a bootable CD, DVD, or floppy disk available. Your *Drivers and Utilities* media is an example of bootable media.

bps — bits per second — The standard unit for measuring data transmission speed.

BTU — British thermal unit — A measurement of heat output.

bus — A communication pathway between the components in your computer.

bus speed — The speed, given in MHz, that indicates how fast a bus can transfer information.

byte — The basic data unit used by your computer. A byte is usually equal to 8 bits.

C

C — Celsius — A temperature measurement scale where 0° is the freezing point and 100° is the boiling point of water.

cache — A special high-speed storage mechanism which can be either a reserved section of main memory or an independent high-speed storage device. The cache enhances the efficiency of many processor operations.

L1 cache — Primary cache stored inside the processor.

L2 cache — Secondary cache which can either be external to the processor or incorporated into the processor architecture.

carnet — An international customs document that facilitates temporary imports into foreign countries. Also known as a *merchandise passport*.

CD-R — CD recordable — A recordable version of a CD. Data can be recorded only once onto a CD-R. Once recorded, the data cannot be erased or written over.

CD-RW — CD rewritable — A rewritable version of a CD. Data can be written to a CD-RW disc, and then erased and written over (rewritten).

CD-RW drive — A drive that can read CDs and write to CD-RW (rewritable CDs) and CD-R (recordable CDs) discs. You can write to CD-RW discs multiple times, but you can write to CD-R discs only once.

CD-RW/DVD drive — A drive, sometimes referred to as a combo drive, that can read CDs and DVDs and write to CD-RW (rewritable CDs) and CD-R (recordable CDs) discs. You can write to CD-RW discs multiple times, but you can write to CD-R discs only once.

clock speed — The speed, given in MHz, that indicates how fast computer components that are connected to the system bus operate.

CMOS — A type of electronic circuit. Computers use a small amount of battery-powered CMOS memory to hold date, time, and system setup options.

COA — Certificate of Authenticity — The Windows alpha-numeric code located on a sticker on your computer. Also referred to as the *Product Key* or *Product ID*.

Control Panel — A Windows utility that allows you to modify operating system and hardware settings, such as display settings.

controller — A chip that controls the transfer of data between the processor and memory or between the processor and devices.

CRIMM — continuity rambus in-line memory module — A special module that has no memory chips and is used to fill unused RIMM slots.

cursor — The marker on a display or screen that shows where the next keyboard, touch pad, or mouse action will occur. It often is a blinking solid line, an underline character, or a small arrow.

D

DDR SDRAM — double-data-rate SDRAM — A type of SDRAM that doubles the data burst cycle, improving system performance.

DDR2 SDRAM — double-data-rate 2 SDRAM — A type of DDR SDRAM that uses a 4-bit prefetch and other architectural changes to boost memory speed to over 400 MHz.

device — Hardware such as a disk drive, printer, or keyboard that is installed in or connected to your computer.

device driver — See *driver*.

DIMM — dual in-line memory module — A circuit board with memory chips that connects to a memory module on the system board.

DIN connector — A round, six-pin connector that conforms to DIN (Deutsche Industrie-Norm) standards; it is typically used to connect PS/2 keyboard or mouse cable connectors.

disk striping — A technique for spreading data over multiple disk drives. Disk striping can speed up operations that retrieve data from disk storage. Computers that use disk striping generally allow the user to select the data unit size or stripe width.

DMA — direct memory access — A channel that allows certain types of data transfer between RAM and a device to bypass the processor.

docking device — provides port replication, cable management, and security features to adapt your notebook to a desktop workspace.

DMTF — Distributed Management Task Force — A consortium of hardware and software companies who develop management standards for distributed desktop, network, enterprise, and Internet environments.

domain — A group of computers, programs, and devices on a network that are administered as a unit with common rules and procedures for use by a specific group of users. A user logs on to the domain to gain access to the resources.

DRAM — dynamic random-access memory — Memory that stores information in integrated circuits containing capacitors.

driver — Software that allows the operating system to control a device such as a printer. Many devices do not work properly if the correct driver is not installed in the computer.

DSL — Digital Subscriber Line — A technology that provides a constant, high-speed Internet connection through an analog telephone line.

dual-core — A technology in which two physical computational units exist inside a single processor package, thereby increasing computing efficiency and multi-tasking ability.

dual display mode — A display setting that allows you to use a second monitor as an extension of your display. Also referred to as *extended display mode*.

DVD-R — DVD recordable — A recordable version of a DVD. Data can be recorded only once onto a DVD-R. Once recorded, the data cannot be erased or written over.

DVD+RW — DVD rewritable — A rewritable version of a DVD. Data can be written to a DVD+RW disc, and then erased and written over (rewritten). (DVD+RW technology is different from DVD-RW technology.)

DVD+RW drive — drive that can read DVDs and most CD media and write to DVD+RW (rewritable DVDs) discs.

DVI — digital video interface — A standard for digital transmission between a computer and a digital video display.

E

ECC — error checking and correction — A type of memory that includes special circuitry for testing the accuracy of data as it passes in and out of memory.

ECP — extended capabilities port — A parallel connector design that provides improved bidirectional data transmission. Similar to EPP, ECP uses direct memory access to transfer data and often improves performance.

EIDE — enhanced integrated device electronics — An improved version of the IDE interface for hard drives and CD drives.

EMI — electromagnetic interference — Electrical interference caused by electromagnetic radiation.

ENERGY STAR® — Environmental Protection Agency requirements that decrease the overall consumption of electricity.

EPP — enhanced parallel port — A parallel connector design that provides bidirectional data transmission.

ESD — electrostatic discharge — A rapid discharge of static electricity. ESD can damage integrated circuits found in computer and communications equipment.

expansion card — A circuit board that installs in an expansion slot on the system board in some computers, expanding the capabilities of the computer. Examples include video, and sound cards.

expansion slot — A connector on the system board (in some computers) where you insert an expansion card, connecting it to the system bus.

ExpressCard — A removable I/O card adhering to the PCMCIA standard. Modems and network adapters are common types of ExpressCards. ExpressCards support both the PCI Express and USB 2.0 standard.

Express Service Code — A numeric code located on a sticker on your Dell™ computer. Use the Express Service Code when contacting Dell for assistance. Express Service Code service may not be available in some countries.

extended display mode — A display setting that allows you to use a second monitor as an extension of your display. Also referred to as *dual display mode*.

extended PC Card — A PC Card that extends beyond the edge of the PC Card slot when installed.

F

Fahrenheit — A temperature measurement scale where 32° is the freezing point and 212° is the boiling point of water.

FBD — fully-buffered DIMM — A DIMM with DDR2 DRAM chips and an Advanced Memory Buffer (AMB) that speeds communication between the DDR2 SDRAM chips and the system.

FCC — Federal Communications Commission — A U.S. agency responsible for enforcing communications-related regulations that state how much radiation computers and other electronic equipment can emit.

fingerprint reader — A strip sensor that uses your unique fingerprint to authenticate your user identity to help secure your computer.

folder — A term used to describe space on a disk or drive where files are organized and grouped. Files in a folder can be viewed and ordered in various ways, such as alphabetically, by date, and by size.

format — The process that prepares a drive or disk for file storage. When a drive or disk is formatted, the existing information on it is lost.

FSB — front side bus — The data path and physical interface between the processor and RAM.

FTP — file transfer protocol — A standard Internet protocol used to exchange files between computers connected to the Internet.

G

G — gravity — A measurement of weight and force.

GB — gigabyte — A measurement of data storage that equals 1024 MB (1,073,741,824 bytes). When used to refer to hard drive storage, the term is often rounded to 1,000,000,000 bytes.

GHz — gigahertz — A measurement of frequency that equals one thousand million Hz, or one thousand MHz. The speeds for computer processors, buses, and interfaces are often measured in GHz.

graphics mode — A video mode that can be defined as x horizontal pixels by y vertical pixels by z colors. Graphics modes can display an unlimited variety of shapes and fonts.

GUI — graphical user interface — Software that interacts with the user by means of menus, windows, and icons. Most programs that operate on the Windows operating systems are GUIs.

H

hard drive — A drive that reads and writes data on a hard disk. The terms hard drive and hard disk are often used interchangeably.

HDMI — The High-Definition Multimedia Interface (HDMI) is an all-digital audio/video interface capable of transmitting uncompressed streams.

heat sink — A metal plate on some processors that helps dissipate heat.

hibernate mode — A power management mode that saves everything in memory to a reserved space on the hard drive and then turns off the computer. When you restart the computer, the memory information that was saved to the hard drive is automatically restored.

HTTP — hypertext transfer protocol — A protocol for exchanging files between computers connected to the Internet.

Hyper-Threading — Hyper-Threading is an Intel technology that can enhance overall computer performance by allowing one physical processor to function as two logical processors, capable of performing certain tasks simultaneously.

Hz — hertz — A unit of frequency measurement that equals 1 cycle per second. Computers and electronic devices are often measured in kilohertz (kHz), megahertz (MHz), gigahertz (GHz), or terahertz (THz).

I

IC — integrated circuit — A semiconductor wafer, or chip, on which thousands or millions of tiny electronic components are fabricated for use in computer, audio, and video equipment.

IDE — integrated device electronics — An interface for mass storage devices in which the controller is integrated into the hard drive or CD drive.

IEEE 1394 — Institute of Electrical and Electronics Engineers, Inc. — A high-performance serial bus used to connect IEEE 1394-compatible devices, such as digital cameras and DVD players, to the computer.

infrared sensor — Consumer Infrared sensor to operate the remote control.

integrated — Usually refers to components that are physically located on the computer's system board. Also referred to as *built-in*.

I/O — input/output — An operation or device that enters and extracts data from your computer. Keyboards and printers are I/O devices.

I/O address — An address in RAM that is associated with a specific device (such as a serial connector, parallel connector, or expansion slot) and allows the processor to communicate with that device.

IrDA — Infrared Data Association — The organization that creates international standards for infrared communications.

IRQ — interrupt request — An electronic pathway assigned to a specific device so that the device can communicate with the processor. Each device connection must be assigned an IRQ. Although two devices can share the same IRQ assignment, you cannot operate both devices simultaneously.

ISP — Internet service provider — A company that allows you to access its host server to connect directly to the Internet, send and receive e-mail, and access websites. The ISP typically provides you with a software package, user name, and access phone numbers for a fee.

K

Kb — kilobit — A unit of data that equals 1024 bits. A measurement of the capacity of memory integrated circuits.

KB — kilobyte — A unit of data that equals 1024 bytes but is often referred to as 1000 bytes.

key combination — A command requiring you to press multiple keys at the same time.

kHz — kilohertz — A measurement of frequency that equals 1000 Hz.

L

LAN — local area network — A computer network covering a small area. A LAN usually is confined to a building or a few nearby buildings. A LAN can be connected to another LAN over any distance through telephone lines and radio waves to form a wide area network (WAN).

LCD — liquid crystal display — The technology used by portable computer and flat-panel displays.

LED — light-emitting diode — An electronic component that emits light to indicate the status of the computer.

local bus — A data bus that provides a fast throughput for devices to the processor.

LPT — line print terminal — The designation for a parallel connection to a printer or other parallel device.

M

Mb — megabit — A measurement of memory chip capacity that equals 1024 Kb.

Mbps — megabits per second — One million bits per second. This measurement is typically used for transmission speeds for networks and modems.

MB — megabyte — A measurement of data storage that equals 1,048,576 bytes. 1 MB equals 1024 KB. When used to refer to hard drive storage, the term is often rounded to 1,000,000 bytes.

MB/sec — megabytes per second — One million bytes per second. This measurement is typically used for data transfer ratings.

media bay — A bay that supports devices such as optical drives, a second battery, or a Dell TravelLite™ module.

memory — A temporary data storage area inside your computer. Because the data in memory is not permanent, it is recommended that you frequently save your files while you are working on them, and always save your files before you shut down the computer. Your computer can contain several different forms of memory, such as RAM, ROM, and video memory. Frequently, the word memory is used as a synonym for RAM.

memory address — A specific location where data is temporarily stored in RAM.

memory mapping — The process by which the computer assigns memory addresses to physical locations at start-up. Devices and software can then identify information that the processor can access.

memory module — A small circuit board containing memory chips, which connects to the system board.

MHz — megahertz — A measure of frequency that equals 1 million cycles per second. The speeds for computer processors, buses, and interfaces are often measured in MHz.

Mini PCI — A standard for integrated peripheral devices with an emphasis on communications such as modems and NICs. A Mini PCI card is a small external card that is functionally equivalent to a standard PCI expansion card.

Mini-Card — A small card designed for integrated peripherals, such as communication NICs. The Mini-Card is functionally equivalent to a standard PCI expansion card.

module bay — See *media bay*.

MP — megapixel — A measure of image resolution used for digital cameras.

ms — millisecond — A measure of time that equals one thousandth of a second. Access times of storage devices are often measured in ms.

N

network adapter — A chip that provides network capabilities. A computer may include a network adapter on its system board, or it may contain a PC Card with an adapter on it. A network adapter is also referred to as a *NIC* (network interface controller).

NIC — See *network adapter*.

notification area — The section of the Windows taskbar that contains icons for providing quick access to programs and computer functions, such as the clock, volume control, and print status. Also referred to as *system tray*.

ns — nanosecond — A measure of time that equals one billionth of a second.

NVRAM — nonvolatile random access memory — A type of memory that stores data when the computer is turned off or loses its external power source. NVRAM is used for maintaining computer configuration information such as date, time, and other system setup options that you can set.

O

optical drive — A drive that uses optical technology to read or write data from CDs, DVDs, or DVD+RWs. Example of optical drives include CD drives, DVD drives, CD-RW drives, and CD-RW/DVD combo drives.

P

parallel connector — An I/O port often used to connect a parallel printer to your computer. Also referred to as an *LPT port*.

partition — A physical storage area on a hard drive that is assigned to one or more logical storage areas known as logical drives. Each partition can contain multiple logical drives.

PC Card — A removable I/O card adhering to the PCMCIA standard. Modems and network adapters are common types of PC Cards.

PCI — peripheral component interconnect — PCI is a local bus that supports 32- and 64-bit data paths, providing a high-speed data path between the processor and devices such as video, drives, and networks.

PCI Express — A modification to the PCI interface that boosts the data transfer rate between the processor and the devices attached to it. PCI Express can transfer data at speeds from 250 MB/sec to 4 GB/sec. If the PCI Express chip set and the device are capable of different speeds, they will operate at the slower speed.

PCMCIA — Personal Computer Memory Card International Association — The organization that establishes standards for PC Cards.

PIO — programmed input/output — A method of transferring data between two devices through the processor as part of the data path.

pixel — A single point on a display screen. Pixels are arranged in rows and columns to create an image. A video resolution, such as 800 x 600, is expressed as the number of pixels across by the number of pixels up and down.

Plug-and-Play — The ability of the computer to automatically configure devices. Plug and Play provides automatic installation, configuration, and compatibility with existing hardware if the BIOS, operating system, and all devices are Plug and Play compliant.

POST — power-on self-test — Diagnostics programs, loaded automatically by the BIOS, that perform basic tests on the major computer components, such as memory, hard drives, and video. If no problems are detected during POST, the computer continues the start-up.

processor — A computer chip that interprets and executes program instructions. Sometimes the processor is referred to as the CPU (central processing unit).

PS/2 — personal system/2 — A type of connector for attaching a PS/2-compatible keyboard, mouse, or keypad.

PXE — pre-boot execution environment — A WfM (Wired for Management) standard that allows networked computers that do not have an operating system to be configured and started remotely.

R

RAID — redundant array of independent disks — A method of providing data redundancy. Some common implementations of RAID include RAID 0, RAID 1, RAID 5, RAID 10, and RAID 50.

RAM — random-access memory — The primary temporary storage area for program instructions and data. Any information stored in RAM is lost when you shut down your computer.

readme file — A text file included with a software package or hardware product. Typically, readme files provide installation information and describe new product enhancements or corrections that have not yet been documented.

read-only — Data and/or files you can view but cannot edit or delete. A file can have read-only status if:

- o It resides on a physically write-protected floppy disk, CD, or DVD.
- o It is located on a network in a directory and the system administrator has assigned rights only to specific individuals.

refresh rate — The frequency, measured in Hz, at which your screen's horizontal lines are recharged (sometimes also referred to as its *vertical frequency*). The higher the refresh rate, the less video flicker can be seen by the human eye.

resolution — The sharpness and clarity of an image produced by a printer or displayed on a monitor. The higher the resolution, the sharper the image.

RFI — radio frequency interference — Interference that is generated at typical radio frequencies, in the range of 10 kHz to 100,000 MHz. Radio frequencies are at the lower end of the electromagnetic frequency spectrum and are more likely to have interference than the higher frequency radiations, such as infrared and light.

ROM — read-only memory — Memory that stores data and programs that cannot be deleted or written to by the computer. ROM, unlike RAM, retains its contents after you shut down your computer. Some programs essential to the operation of your computer reside in ROM.

RPM — revolutions per minute — The number of rotations that occur per minute. Hard drive speed is often measured in rpm.

RTC — real time clock — Battery-powered clock on the system board that keeps the date and time after you shut down the computer.

RTCST — real-time clock reset — A jumper on the system board of some computers that can often be used for troubleshooting problems.

S

SAS — serial attached SCSI — A faster, serial version of the SCSI interface (as opposed to the original SCSI parallel architecture).

SATA — serial ATA — A faster, serial version of the ATA (IDE) interface.

ScanDisk — A Microsoft utility that checks files, folders, and the hard disk's surface for errors. ScanDisk often runs when you restart the computer after it has stopped responding.

SCSI — small computer system interface — A high-speed interface used to connect devices to a computer, such as hard drives, CD drives, printers, and scanners. The SCSI can connect many devices using a single controller. Each device is accessed by an individual identification number on the SCSI controller bus.

SDRAM — synchronous dynamic random-access memory — A type of DRAM that is synchronized with the optimal clock speed of the processor.

serial connector — An I/O port often used to connect devices such as a handheld digital device or digital camera to your computer.

Service Tag — A bar code label on your computer that identifies your computer when you access Dell Support at support.dell.com or when you call Dell for customer service or technical support.

setup program — A program that is used to install and configure hardware and software. The **setup.exe** or **install.exe** program comes with most Windows software packages. *Setup program* differs from *system setup*.

shortcut — An icon that provides quick access to frequently used programs, files, folders, and drives. When you place a shortcut on your Windows desktop and double-click the icon, you can open its corresponding folder or file without having to find it first. Shortcut icons do not change the location of files. If you delete a shortcut, the original file is not affected. Also, you can rename a shortcut icon.

SIM — Subscriber Identity Module — A SIM card contains a microchip that encrypts voice and data transmissions. SIM cards can be used in phones or portable computers.

smart card — A card that is embedded with a processor and a memory chip. Smart cards can be used to authenticate a user on computers equipped for smart cards.

S/PDIF — Sony/Philips Digital Interface — An audio transfer file format that allows the transfer of audio from one file to another without converting it to and from an analog format, which could degrade the quality of the file.

standby mode — A power management mode that shuts down all unnecessary computer operations to save energy.

Strike Zone™ — Reinforced area of the platform base that protects the hard drive by acting as a dampening device when a computer experiences resonating shock or is dropped (whether the computer is on or off).

surge protectors — Prevent voltage spikes, such as those that may occur during an electrical storm, from entering the computer through the electrical outlet. Surge protectors do not protect against lightning strikes or against brownouts, which occur when the voltage drops more than 20 percent below the normal AC-line voltage level.

Network connections cannot be protected by surge protectors. Always disconnect the network cable from the network connector during electrical storms.

SVGA — super-video graphics array — A video standard for video cards and controllers. Typical SVGA resolutions are 800 x 600 and 1024 x 768.

The number of colors and resolution that a program displays depends on the capabilities of the monitor, the video controller and its drivers, and the amount of video memory installed in the computer.

S-video TV-out — A connector used to attach a TV or digital audio device to the computer.

SXGA — super-extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1280 x 1024.

SXGA+ — super-extended graphics array plus — A video standard for video cards and controllers that supports resolutions up to 1400 x 1050.

system board — The main circuit board in your computer. Also known as the *motherboard*.

system setup — A utility that serves as an interface between the computer hardware and the operating system. System setup allows you to configure user-selectable options in the BIOS, such as date and time or system password. Unless you understand what effect the settings have on the computer, do not change the settings for this program.

T

TAPI — telephony application programming interface — Enables Windows programs to operate with a wide variety of telephony devices, including voice, data, fax, and video.

text editor — A program used to create and edit files that contain only text: for example, Windows Notepad uses a text editor. Text editors do not usually provide word wrap or formatting functionality (the option to underline, change fonts, and so on).

TPM — trusted platform module — A hardware-based security feature that when combined with security software enhances network and computer security by enabling features such as file and e-mail protection.

travel module — A plastic device designed to fit inside the module bay of a portable computer to reduce the weight of the computer.

U

UAC — user account control— Microsoft Windows Vista™ security feature that, when enabled, provides an added layer of security between user accounts and access to operating system settings.

UMA — unified memory allocation — System memory dynamically allocated to video.

UPS — uninterruptible power supply — A backup power source used when the electrical power falls or drops to an unacceptable voltage level. A UPS keeps a computer running for a limited amount of time when there is no electrical power. UPS systems typically provide surge suppression and may also provide voltage regulation. Small UPS systems provide battery power for a few minutes to enable you to shut down your computer.

USB — universal serial bus — A hardware interface for a low-speed device such as a USB-compatible keyboard, mouse, joystick, scanner, set of speakers, printer, broadband devices, imaging devices, or storage devices. Devices are plugged directly in to a 4-pin socket on your computer or in to a multi-port hub that plugs in to your computer. USB devices can be connected and disconnected while the computer is turned on, and they can also be daisy-chained together.

UTP — unshielded twisted pair — Describes a type of cable used in most telephone networks and some computer networks. Pairs of unshielded wires are twisted to protect against electromagnetic interference, rather than relying on a metal sheath around each pair of wires to protect against interference.

UXGA — ultra extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1600 x 1200.

V

video controller — The circuitry on a video card or on the system board (in computers with an integrated video controller) that provides the video capabilities—in combination with the monitor—for your computer.

video memory — Memory that consists of memory chips dedicated to video functions. Video memory is usually faster than system memory. The amount of video memory installed primarily influences the number of colors that a program can display.

video mode — A mode that describes how text and graphics are displayed on a monitor. Graphics-based software, such as Windows operating systems, displays in video modes that can be defined as x horizontal pixels by y vertical pixels by z colors. Character-based software, such as text editors, displays in video modes that can be defined as x columns by y rows of characters.

video resolution — See *resolution*.

virus — A program that is designed to inconvenience you or to destroy data stored on your computer. A virus program moves from one computer to another through an infected disk, software downloaded from the Internet, or e-mail attachments. When an infected program starts, its embedded virus also starts.

A common type of virus is a boot virus, which is stored in the boot sectors of a floppy disk. If the floppy disk is left in the drive when the computer is shut down and then turned on, the computer is infected when it reads the boot sectors of the floppy disk expecting to find the operating system. If the computer is infected, the boot virus may replicate itself onto all the floppy disks that are read or written in that computer until the virus is eradicated.

V — volt — The measurement of electric potential or electromotive force. One V appears across a resistance of 1 ohm when a current of 1 ampere flows through that resistance.

W

W — watt — The measurement of electrical power. One W is 1 ampere of current flowing at 1 volt.

WHr — watt-hour — A unit of measure commonly used to indicate the approximate capacity of a battery. For example, a 66-WHr battery can supply 66 W of power for 1 hour or 33 W for 2 hours.

wallpaper — The background pattern or picture on the Windows desktop. Change your wallpaper through the Windows Control Panel. You can also scan in your favorite picture and make it wallpaper.

WLAN — wireless local area network. A series of interconnected computers that communicate with each other over the air waves using access points or wireless routers to provide Internet access.

write-protected — Files or media that cannot be changed. Use write-protection when you want to protect data from being changed or destroyed. To write-protect a 3.5-inch floppy disk, slide its write-protect tab to the open position.

WWAN — wireless wide area network. A wireless high-speed data network using cellular technology and covering a much larger geographic area than WLAN.

WXGA — wide-aspect extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1280 x 800.

X

XGA — extended graphics array — A video standard for video cards and controllers that supports resolutions up to 1024 x 768.

Z

ZIF — zero insertion force — A type of socket or connector that allows a computer chip to be installed or removed with no stress applied to either the chip or its socket.

Zip — A popular data compression format. Files that have been compressed with the Zip format are called Zip files and usually have a filename extension of **.zip**. A special kind of zipped file is a self-extracting file, which has a filename extension of **.exe**. You can unzip a self-extracting file by double-clicking it.

Zip drive — A high-capacity floppy drive developed by Iomega Corporation that uses 3.5-inch removable disks called Zip disks. Zip disks are slightly larger than regular floppy disks, about twice as thick, and hold up to 100 MB of data.

[Back to Contents Page](#)


Using the Keyboard

Dell™ XPS™ M1730 Owner's Manual

- [Numeric Keypad](#)
- [Keyboard Illumination](#)
- [Key Combinations](#)
- [Touch Pad](#)

Numeric Keypad

The numeric keypad functions like the numeric keypad on an external keyboard.

- 1 To enable the keypad, press <Num Lk>. The  light indicates that the keypad is active.
- 1 To disable the keypad, press <Num Lk> again.

Keyboard Illumination

Your computer features keyboard illumination. It has several LEDs built into the LCD lid that project light onto the keyboard. By pressing the <Fn><→> keys, you may cycle through the following keyboard illumination options:

- 1 Always On
- 1 Always Off
- 1 Auto Mode

In Auto Mode, the keyboard illumination LEDs automatically turn on or off, depending on the ambient light level.

Key Combinations

Keyboard Illumination

<Fn> and right-arrow key	Toggles the keyboard illumination lights on and off
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System Functions

<Ctrl><Shift><Esc>	Opens the Task Manager window.
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Battery

<Fn><F3>	Displays the Dell™ QuickSet Battery Meter.
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Power Management

<Fn><Esc>	Activates a power management mode. You can reprogram this keyboard shortcut to activate a different power management mode using the Advanced tab in the Power Options Properties window.
<Fn><F1>	Puts the computer into hibernate mode. Dell QuickSet is required.

Microsoft® Windows® Logo Key Functions

Windows logo key and <m>	Minimizes all open windows
Windows logo key and <Shift><m>	Restores all minimized windows. This key combination functions as a toggle to restore minimized windows following the use of the Windows logo key and <m> key combination.

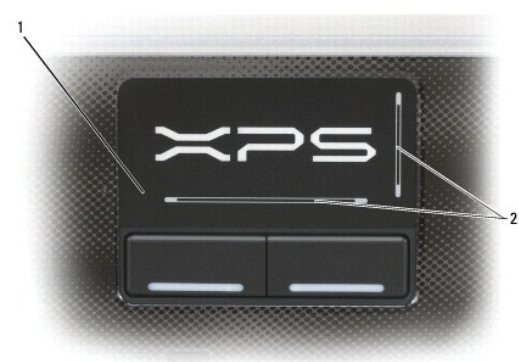
Windows logo key and <e>	Runs Windows Explorer.
Windows logo key and <r>	Opens the Run dialog box.
Windows logo key and <f>	Opens the Search Results dialog box.
Windows logo key and <Ctrl><f>	Opens the Search Results-Computer dialog box (if the computer is connected to a network).
Windows logo key and <Pause>	Opens the System Properties dialog box.

To adjust keyboard operation, such as the character repeat rate, open the Control Panel, click **Hardware and Sound**, and click **Keyboard**. For information about the Control Panel, see the Windows Help and Support Center.

Touch Pad

The touch pad detects the pressure and movement of your finger to allow you to move the cursor on the display. Use the touch pad and touch pad buttons as you would use a mouse.

- 1 To move the cursor, lightly slide your finger over the touch pad.



1	touch pad	2	scroll zones
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- 1 To select an object, lightly tap once on the surface of the touch pad or use your thumb to press the left touch-pad button.
- 1 To select and move (or drag) an object, position the cursor on the object and tap twice on the touch pad. On the second tap, leave your finger on the touch pad and move the selected object by sliding your finger over the surface.
- 1 To double-click an object, position the cursor on the object and tap twice on the touch pad or use your thumb to press the left touch-pad button twice.

Using Multimedia

Dell™ XPS™ M1730 Owner's Manual

- [Playing Media](#)
- [Playing Media Using Dell Express Card Remote Control \(Optional\)](#)
- [Copying CD, DVD, and Blu-ray Disc™ \(BD\) Media](#)
- [Adjusting the Volume](#)
- [Adjusting the Picture](#)
- [Using Dell MediaDirect™](#)
- [Connecting Your Computer to a TV or Audio Device](#)

Playing Media


- ➡ **NOTICE:** Do not press down on the optical drive tray when you open or close it. Keep the tray closed when you are not using the drive.
- ➡ **NOTICE:** Do not move the computer while playing media.

1. Press the eject button on the front of the drive.
2. Place the disc, label side up, in the center of the tray and snap the disc onto the spindle.











3. Push the tray back into the drive.



To format media for storing or copying data, see the media software that came with your computer.










 **NOTE:** Ensure that you follow all copyright laws when copying media.

A CD player includes the following basic buttons:

	Play.
	Move backward within the current track.
	Pause.
	Move forward within the current track.
	Stop.
	Go to the previous track.
	Eject.
	Go to the next track.

A DVD player includes the following basic buttons:

	Stop.
	Restart the current chapter.


	Play.
	Fast forward.
	Pause.
	Fast reverse.
	Advance a single frame while in pause mode.
	Go to the next title or chapter.
	Continuously play the current title or chapter.
	Go to the previous title or chapter.
	Eject.

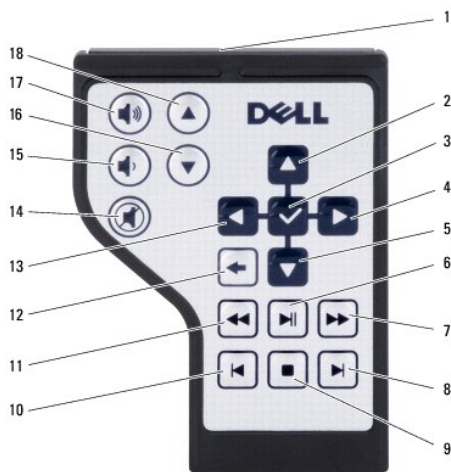
For more information on playing media, click **Help** on the media player (if available).

Playing Media Using Dell Express Card Remote Control (Optional)

The Dell Express Card remote control is designed to control Dell Media Direct and Windows Vista™ Media Center. It can work only with specified computers. For more details, refer to the Dell Support website at support.dell.com.


To play media using Dell Express Card remote control:


1. Install a coin-cell battery into your Express Card remote control.
2. Launch Windows Vista™ Media Center from Start  → Programs.
3. Use the remote control buttons to play media.



1	Infrared Transmitter	2	Arrow Up
3	OK/Enter/Select	4	Arrow Right
5	Arrow Down	6	Play/Pause
7	Forward	8	Skip Forward
9	Stop	10	Skip Back
11	Reverse	12	Back
13	Arrow Left	14	Mute
15	Volume Down	16	Page Down
17	Volume Up	18	Page Up

Copying CD, DVD, and Blu-ray Disc™ (BD) Media

 **NOTE:** Ensure that you observe all copyright laws while copying media.


 **NOTE:** The types of optical drives offered by Dell may vary by country.


This section applies only to computers that have a DVD+/-RW, Combo, or BD-RE drive.


The following instructions explain how to make an exact copy of a CD, DVD or BD using Roxio Creator. You can also use Roxio Creator for other purposes, such as creating music CDs from audio files stored on your computer or backing up important data. For help, open Roxio Creator, and then press <F1>.


The DVD drives and BD drives installed in Dell computers do not support HD-DVD media. For a list of supported media formats, see [Using Blank CD, DVD, and BD Media](#).

How to Copy a CD, DVD or BD

 **NOTE:** Most commercial DVDs and BDs have copyright protection and cannot be copied using Roxio Creator Plus.

 **NOTE:** BD media can only be copied to other BD media.

 **NOTE:** Copying a BD-R to BD-RE does not produce an exact copy.

1. Click **Start**  → **All Programs** → **Roxio Creator** → **Projects** → **Copy**.
2. Under the **Copy** tab, click **Copy Disc**.
3. To copy the CD, DVD or BD:
 1. *If you have one optical drive*, insert the source disc into the drive, ensure that the settings are correct, and then click the **Copy Disc** button to continue. The computer reads your source disc and copies the data to a temporary folder on your computer hard drive.

When prompted, insert a blank disc into the drive and click **OK**.

1. *If you have two optical drives*, select the drive into which you have inserted your source disc and click the **Copy Disc** button to continue. The computer copies the data from the source disc to the blank disc.

Once you have finished copying the source disc, the disc that you have created automatically ejects.

Using Blank CD, DVD, and BD Media

DVD-writable drives can write to both CD and DVD recording media. BD-writable drives can write to CD, DVD and BD recording media.

Use blank CD-Rs to record music or permanently store data files. After creating a CD-R, you cannot write to that CD-R again (see the Sonic documentation for more information). Use a blank CD-RW if you plan to erase, rewrite, or update information on that disc later.

Blank DVD+/-R or BD-R media can be used to permanently store large amounts of information. After you create a DVD+/-R or BD-R, you may not be able to write to that disc again if the disc is *finalized* or *closed* during the final stage of the disc creation process. Use blank DVD+/-RW or BD-RE media if you plan to erase, rewrite, or update information on that disc later.

DVD-Writable and Combo Drives

Media Type	Read	Write	Rewritable
CD-R	Yes	Yes	No
CD-RW	Yes	Yes	Yes
DVD+R	Yes	Yes	No
DVD-R	Yes	Yes	No
DVD+RW	Yes	Yes	Yes
DVD-RW	Yes	Yes	Yes
DVD+R DL	Yes	Yes	No
DVD-R DL	Yes	Yes	No

Blu-Ray Drives

Media Type	Read	Write	Rewritable
CD-R	Yes	Yes	No
CD-RW	Yes	Yes	Yes
DVD+R	Yes	Yes	No
DVD-R	Yes	Yes	No
DVD+RW	Yes	Yes	Yes

DVD-RW	Yes	Yes	Yes
DVD+R DL	Yes	Yes	No
DVD-R DL	Yes	No	No
BD-R	Yes	Yes	No
BD-RE	Yes	Yes	Yes

Helpful Tips

1. Use Microsoft® Windows® Explorer to drag and drop files to a CD-R or CD-RW only after you start Roxio Creator and open a Creator project.
1. Do not burn a blank CD-R or CD-RW to its maximum capacity; for example, do not copy a 650-MB file to a blank 650-MB CD. The CD-RW drive needs 1–2 MB of the blank space to finalize the recording.
1. Use CD-Rs to burn music CDs that you want to play in regular stereos. CD-RWs do not play in most home or car stereos.
1. Music MP3 files can be played only on MP3 players or on computers that have MP3 software installed.
1. Use a blank CD-RW to practice CD recording until you are familiar with CD recording techniques. If you make a mistake, you can erase the data on the CD-RW and try again. You can also use blank CD-RWs to test music file projects before you record the project permanently to a blank CD-R.
1. You cannot create audio DVDs with Roxio Creator.
1. Commercially available DVD players used in home theater systems may not support all available DVD formats. For a list of formats supported by your DVD player, see the documentation provided with your DVD player or contact the manufacturer.
1. Commercially available BD players used in home theater systems may not support all available BD formats. For a list of formats supported by your BD player, see the documentation provided with your BD player or contact the manufacturer.
1. See the Roxio website at www.sonic.com.

Adjusting the Volume

 **NOTE:** When the speakers are muted, you do not hear the media playing.

1. Right-click the volume icon in the notification area.
2. Click **Open Volume Mixer**.
3. Click and drag the bar to slide it up or down to increase or decrease the volume.

For more information on volume control options, click **Help** in the **Volume Mixer** window.

The Volume Meter displays the current volume level, including mute, on your computer. Either click the QuickSet icon in the notification area and select or deselect **Disable On Screen Volume Meter**, or press the volume control buttons to enable or disable the Volume Meter on the screen.

You can also use the media control buttons on the front of the computer to adjust the volume (see [Media control buttons](#)).


Adjusting the Picture

If an error message notifies you that the current resolution and color depth are using too much memory and preventing media playback, adjust the display properties:

Windows XP

1. Click **Start→Control Panel→Appearance and Themes**.
2. Under **Pick a task...**, click **Change the screen resolution**.
3. Under **Screen resolution**, click and drag the bar to reduce the resolution setting.
4. In the drop-down menu under **Color quality**, click **Medium (16 bit)** and click **OK**.

Windows Vista™

1. Click the Windows Vista Start button , click **Control Panel**, and then click **Appearance and Personalization**.

2. Under **Personalization**, click **Adjust Screen Resolution**.

The **Display Properties** window appears.

3. Under **Resolution**: click and drag the bar to reduce the resolution setting.
4. In the drop-down menu under **Colors**:, click **Medium (16 bit)**.
5. Click **OK**.

Using Dell MediaDirect™

Dell MediaDirect is an instant-on multimedia playback mode for digital media. Press the Dell MediaDirect button, located on the hinge cover, to launch Dell MediaDirect.

If the computer is turned on or in standby or sleep mode


If you press the Dell MediaDirect button while the computer is turned on or in standby (Windows XP) or sleep (Windows Vista) mode, either Windows Media Center Manager or Dell Media Experience launches, depending on your system setup. If both applications are present, Windows Media Center Manager launches.

If the computer is turned off or in hibernate mode

When your computer is turned off or in hibernate mode, you can press the Dell MediaDirect button to start the computer and automatically launch the Dell MediaDirect application.




1	Dell MediaDirect button
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 **NOTE:** If you voluntarily reformat the hard drive, reinstall Dell MediaDirect using the MediaDirect re-installation media that was shipped with your computer. For more information, see the *Reinstalling Dell MediaDirect* techsheet that accompanied your computer.

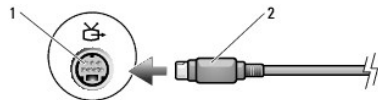
For more information on using Dell MediaDirect, use the **Help** menu in the Dell MediaDirect application.

Connecting Your Computer to a TV or Audio Device

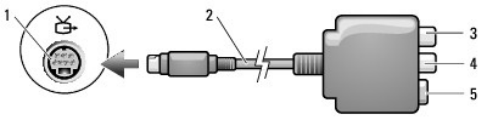
 **NOTE:** Video and audio cables for connecting your computer to a TV or other audio device may not be included with your computer. Cables and TV/digital audio adaptor cables are available for purchase from Dell.

Your computer has an S-video TV-out and DVI-I connector that, together with a standard S-video cable, a composite video adapter cable, a component video adapter cable (available from Dell), or a DVI to HDMI adaptor cable (available from Dell), enable you to connect the computer to a TV.

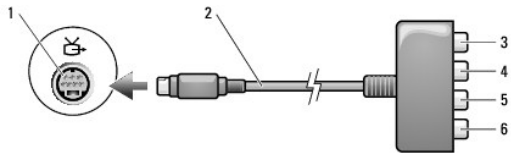
Your TV has either an S-video input connector, a composite video-input connector, a component video-input connector, or an HDMI connector. Depending on what type of connector is available on your TV, you can use a commercially available S-video cable, composite video cable, component video cable, or DVI to HDMI adaptor cable to connect your computer to your TV.



1	S-video TV-out connector	2	S-video connector
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1	S-video TV-out connector	2	composite video adapter
3	S/PDIF digital audio connector	4	composite video-output connector
5	S-video connector		



1	S-video TV-out connector	2	component video adapter
3	S/PDIF digital audio connector	4	Pr (red) component video-output connector
5	Pb (blue) component video-output connector	6	Y (green) component video-output connector

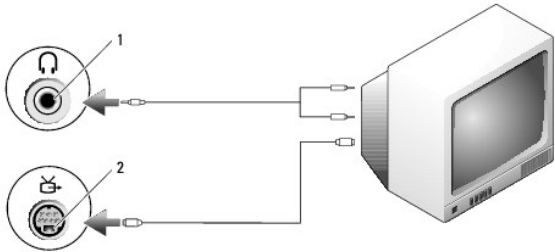
If you want to connect your computer to a TV or audio device, it is recommended that you connect video and audio cables to your computer in one of the following combinations:

- 1 [S-video and standard audio](#)
- 1 [Composite video and standard audio](#)
- 1 Component-out video and standard audio
- 1 DVI to HDMI adaptor cable and standard audio

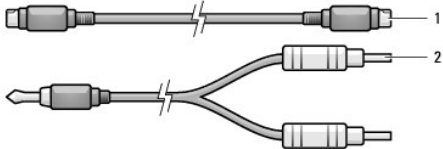
NOTE: See the diagrams at the beginning of each subsection to help you determine which method of connection you should use.

When you finish connecting the video and audio cables between your computer and your TV, you must enable your computer to work with the TV. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV. Additionally, if you are using S/PDIF digital audio, see [Enabling S/PDIF Digital Audio](#).

S-Video and Standard Audio



1	audio connector	2	S-video TV-out connector
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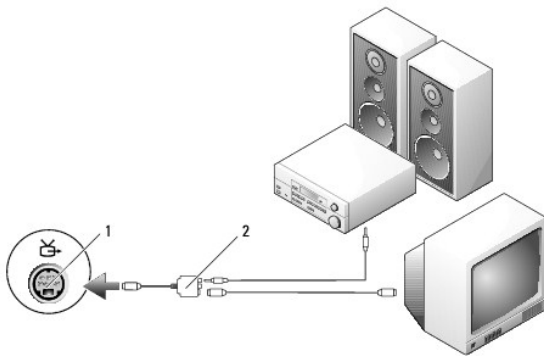
1	standard S-video cable	2	standard audio cable
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1. Turn off the computer and the TV and/or audio device that you want to connect.

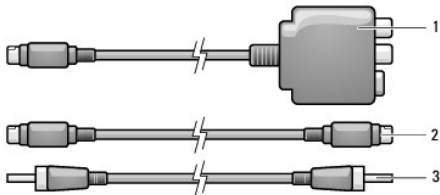
NOTE: If your TV or audio device supports S-video but not S/PDIF digital audio, you can connect an S-video cable directly to the S-video TV-out connector on the computer (without the TV/digital audio adapter cable).

2. Plug one end of the S-video cable into the S-video output connector on the computer.
3. Plug the other end of the S-video cable into the S-video input connector on your TV.
4. Plug the single-connector end of the audio cable into the headphone connector on your computer.
5. Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or other audio device.
6. Turn on the TV and any audio device that you connected (if applicable), and then turn on the computer.
7. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

S-Video and S/PDIF Digital Audio

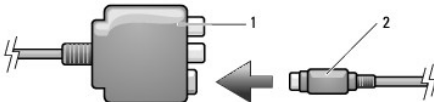


1	S-video TV-out connector	2	composite video adapter
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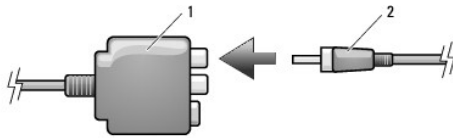
1	composite video adapter	2	S-video cable	3	S/PDIF digital audio cable
---	-------------------------	---	---------------	---	----------------------------

1. Turn off the computer and the TV and/or the audio device that you want to connect.
2. Connect the composite video adapter to the S-video TV-out connector on your computer.
3. Plug one end of the S-video cable into the S-video output connector on the composite video adapter.



1	composite video adapter	2	S-video cable
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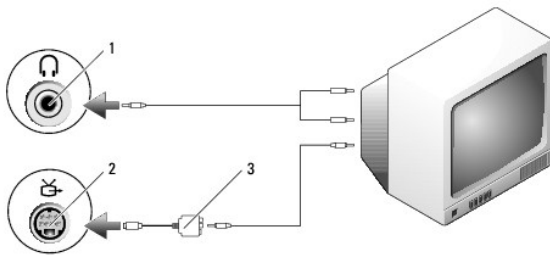
4. Plug the other end of the S-video cable into the S-video input connector on the TV.
5. Plug one end of the S/PDIF digital audio cable into the digital audio connector on the composite video adapter cable.



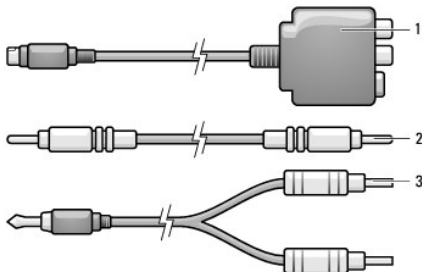
1	composite video adapter	2	S/PDIF digital audio cable
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- Plug the other end of the S/PDIF digital audio cable into the audio input connector on your TV or audio device.
- Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Composite Video and Standard Audio

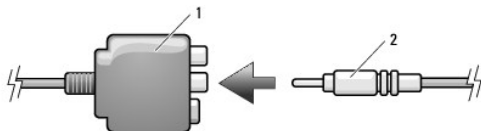


1	audio input connector	2	S-video TV-out connector
3	composite video adapter		



1	composite video adapter	2	composite video cable
3	standard audio cable		

- Turn off the computer and the TV and/or audio device that you want to connect.
- Connect the composite video adapter to the S-video TV-out connector on your computer.
- Plug one end of the composite video cable into the composite video-output connector on the composite video adapter.

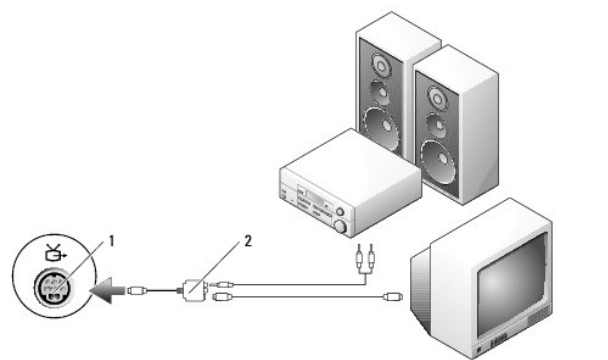


1	composite video adapter	2	composite video cable
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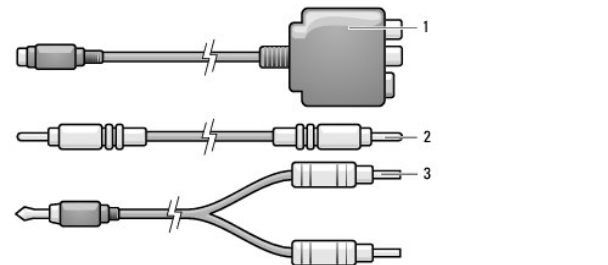
- Plug the other end of the composite video cable into the composite video-input connector on the TV.
- Plug the single-connector end of the audio cable into the headphone connector on the computer.

6. Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or other audio device.
7. Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
8. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Composite Video and S/PDIF Digital Audio

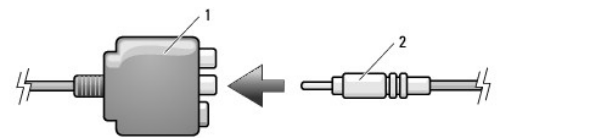


1	S-video TV-out connector	2	composite video adapter
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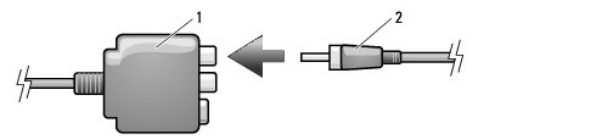
1	composite video adapter	2	composite video cable
3	standard audio cable		

1. Turn off the computer and the TV and/or audio device that you want to connect.
2. Connect the composite video adapter to the S-video TV-out connector on the computer.
3. Plug one end of the composite video cable into the composite video-input connector on the composite video adapter.



1	composite video adapter	2	composite video cable
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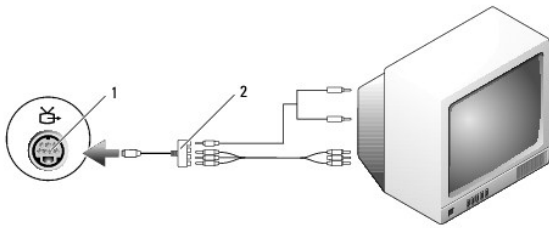
4. Plug the other end of the composite video cable into the composite video-input connector on the TV.
5. Plug one end of the S/PDIF digital audio cable into the S/PDIF audio connector on the composite video adapter.



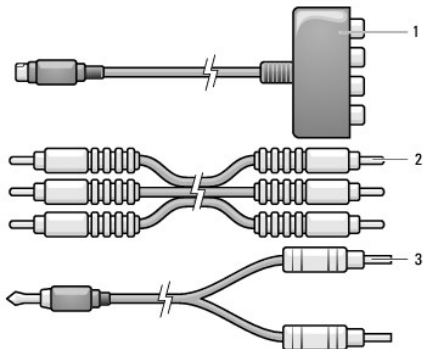
1	composite video adapter	2	S/PDIF digital audio cable
---	-------------------------	---	----------------------------

- Plug the other end of the digital audio cable into the S/PDIF input connector on your TV or other audio device.
- Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
- See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Component Video and Standard Audio

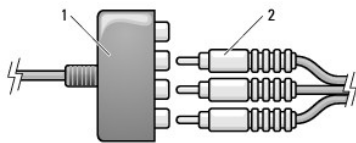


1	S-video TV-out connector	2	component video adapter
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1	component video adapter	2	component video cable
3	standard audio cable		

- Turn off the computer and the TV and/or audio device that you want to connect.
- Connect the component video adapter to the S-video TV-out connector on your computer.
- Plug all three ends of the component video cable into the component video-output connectors on the component video adapter. Make sure that the red, green, and blue colors of the cable match the corresponding adapter ports.

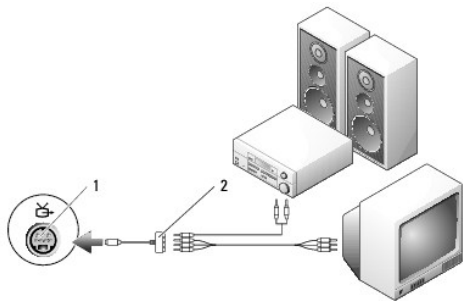


1	component video adapter	2	component video cable
---	-------------------------	---	-----------------------

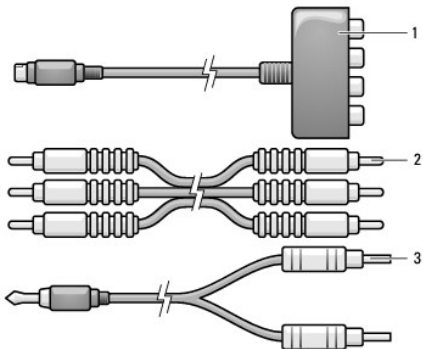
- Plug all three connectors from the other end of the component video cable into the component video-input connectors on the TV. Make sure that the red, green, and blue colors of the cable match the colors of the TV input connectors.
- Plug the single-connector end of the audio cable into the headphone connector on the computer.
- Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or audio device.
- Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.

8. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Component Video and S/PDIF Digital Audio

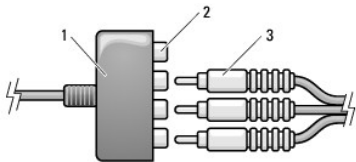


1	S-video TV-out connector	2	component video adapter
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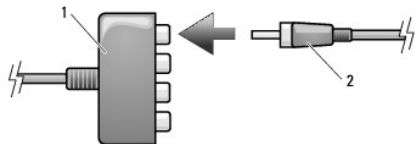
1	component video adapter	2	component video cable
3	standard audio cable		

1. Turn off the computer and the TV and/or audio device that you want to connect.
2. Connect the component video adapter to the S-video TV-out connector on the computer.
3. Plug all three ends of the component video cable into the component video-output connectors on the component video adapter. Make sure that the red, green, and blue colors of the cable match the corresponding adapter ports.



1	component video adapter	2	component video-output connectors
3	component video cable		

4. Plug all three connectors from the other end of the component video cable into the component video-input connectors on the TV. Make sure that the red, green, and blue colors of the cable match the colors of the TV input connectors.
5. Plug one end of the S/PDIF digital audio cable into the S/PDIF audio connector on the component video adapter.



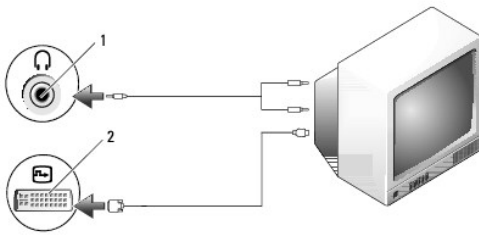
1	component video adapter	2	S/PDIF digital audio cable
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6. Plug the other end of the digital audio cable into the S/PDIF input connector on your TV or other audio device.
7. Turn on the TV, turn on any audio device that you connected (if applicable), and then turn on the computer.
8. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Enabling S/PDIF Digital Audio

1. Double-click the speaker icon in the Windows notification area.
2. Click the **Options** menu and then click **Advanced Controls**.
3. Click **Advanced**.
4. Click **S/PDIF Interface**.
5. Click **Close**.
6. Click **OK**.

DVI to HDMI and Standard Audio



1	audio connector	2	DVI connector
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1	DVI connector	2	HDMI connector
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1. Turn off the computer and the TV and/or audio device that you want to connect.
2. Plug the DVI end of the DVI to HDMI adaptor cable into the DVI-I connector on the computer.
3. Plug the other end of the DVI to HDMI adaptor cable into the HDMI connector on your TV.
4. Plug the single-connector end of the audio cable into the headphone connector on your computer.
5. Plug the two RCA connectors on the other end of the audio cable into the audio input connectors on your TV or other audio device.
6. Turn on the TV and any audio device that you connected (if applicable), and then turn on the computer.
7. See [Enabling the Display Settings for a TV](#) to ensure that the computer recognizes and works properly with the TV.

Enabling the Display Settings for a TV

To ensure that the display options appear correctly, connect the TV to the computer before you enable the display settings.


Windows XP



1. Click the **Start** button, point to **Settings**, and then click **Control Panel**.
2. Double-click **Display** and click the **Settings** tab.
3. Click **Advanced**.
4. Click the tab for your video card.

 **NOTE:** To determine the type of video card installed in your computer, see the Windows Help and Support Center. To access the Help and Support Center, click **Start**→ **Help and Support**. Under **Pick a Task**, click **Use Tools to view your computer information and diagnose problems**. Then, under **My Computer Information**, select **Hardware**.

5. In the display devices section, select the appropriate option for using either a single display or multiple displays, ensuring that the display settings are correct for your selection.

Windows Vista

1. Click the Windows Vista Start button , click **Control Panel**, and then click **Appearance and Personalization**.
2. Under **Personalization**, click **Adjust Screen Resolution**.
The **Display Properties** window appears.
3. Click **Advanced**.
4. Click the tab for your video card.

 **NOTE:** To determine the type of video card installed in your computer, see the Windows Help and Support Center. To access the Help and Support Center in Windows Vista, click the Windows Vista Start button  → **Help and Support**. Under **Pick a Task**, click **Use Tools to view your computer information and diagnose problems**. Then, under **My Computer Information**, select **Hardware**.

5. In the display devices section, select the appropriate option for using either a single display or multiple displays, ensuring that the display settings are correct for your selection.

[Back to Contents Page](#)

Adding and Replacing Parts

Dell™ XPS™ M1730 Owner's Manual

- [Before You Begin](#)
 - [Hard Drive](#)
 - [Memory](#)
 - [Subscriber Identity Module](#)
 - [Internal Card With Bluetooth™ Wireless Technology](#)
 - [Optical Drive](#)
-

Before You Begin

This chapter provides procedures for removing and installing the components in your computer. Unless otherwise noted, each procedure assumes that the following conditions exist:

- 1 You have performed the steps in "[Turning Off Your Computer](#)" (see [Turning Off Your Computer](#)) and "Before Working Inside Your Computer" (see [Before Working Inside Your Computer](#)).
- 1 You have read the safety information in your Dell™ *Product Information Guide*.
- 1 A component can be replaced or—if purchased separately—installed by performing the removal procedure in reverse order.

Recommended Tools

The procedures in this document may require the following tools:

- 1 Small flat-blade screwdriver
- 1 Phillips screwdriver
- 1 Small plastic scribe
- 1 Flash BIOS update program (see the Dell Support website at support.dell.com)

Turning Off Your Computer


 **NOTICE:** To avoid losing data, save and close any open files and exit any open programs before you turn off your computer.

1. Shut down the operating system:

Windows® XP:

Click **Start→ Shut Down→ Shut down**.

Windows Vista™:

Click the Windows Vista Start button  , click the arrow in the lower-right corner of the Start menu as shown below, and then click **Shut Down**.




The computer turns off after the operating system shutdown process is complete.

2. Ensure that the computer and any attached devices are turned off. If your computer and attached devices did not automatically turn off when you shut down your operating system, press and hold the power button for at least 8 to 10 seconds until the computer turns off.

Before Working Inside Your Computer

Use the following safety guidelines to help protect your computer from potential damage and to help ensure your own personal safety.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **CAUTION:** Handle components and cards with care. Do not touch the components or contacts on a card. Hold a card by its edges or by its metal mounting bracket. Hold a component such as a processor by its edges, not by its pins.

- ➡ **NOTICE:** Damage due to servicing that is not authorized by Dell is not covered by your warranty.
- ➡ **NOTICE:** When you disconnect a cable, pull on its connector, not on the cable itself. Some cables have a connector with locking tabs; if you are disconnecting this type of cable, press in on the locking tabs before you disconnect the cable. As you pull connectors apart, keep them evenly aligned to avoid bending any connector pins. Also, before you connect a cable, ensure that both connectors are correctly oriented and aligned.
- ➡ **NOTICE:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on the back of the computer).
- ➡ **NOTICE:** To avoid damaging the computer, perform the following steps before you begin working inside the computer.

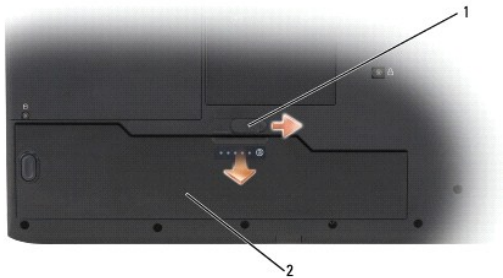
1. Ensure that the work surface is flat and clean to prevent the computer cover from being scratched.
2. Turn off your computer. See [Turning Off Your Computer](#).

- ➡ **NOTICE:** To disconnect a network cable, first unplug the cable from your computer and then unplug it from the network wall jack.

3. Disconnect any network cables from the computer.
4. Disconnect your computer and all attached devices from their electrical outlets.

- ➡ **NOTICE:** To avoid damaging the system board, you must remove the battery before you service the computer.

5. Remove the battery. Slide and hold the battery-bay latch release on the bottom of the computer, and then remove the battery from the bay.



1	battery-bay latch release	2	battery
---	---------------------------	---	---------

6. Press the power button to ground the system board.
7. Remove any installed ExpressCards from the ExpressCard slot.

Hard Drive

- ⚠ **CAUTION:** If you remove the hard drive from the computer when the drive is hot, *do not touch* the metal housing of the hard drive.
- ⚠ **CAUTION:** Before working inside your computer, follow the safety instructions located in the *Product Information Guide*.
- ➡ **NOTICE:** To prevent data loss, turn off your computer before removing the hard drive. Do not remove the hard drive while the computer is on, in standby mode, or in hibernate mode.
- ➡ **NOTICE:** Hard drives are extremely fragile; even a slight bump can damage the drive.
- 🔧 **NOTE:** Dell does not guarantee compatibility or provide support for hard drives from sources other than Dell.

Your computer can accommodate up to two hard drives. The hard drives are installed in trays labeled **0** and **1** in the hard drive cage and the cage is installed in the hard drive bay. To replace a hard drive or install a second one, you must first remove the hard drive cage from the hard drive bay.

Removing the Hard Drive Cage

1. Follow the procedures in [Before You Begin](#).
2. Turn the computer over, loosen the two captive screws on the hard drive cover, and then remove the cover.



1	captive screws (2)
---	--------------------

- Loosen the four captive screws on the hard drive cage and then lift the pull-tab to flip the cage towards the center of the computer so that the SATA cables and connectors are accessible.



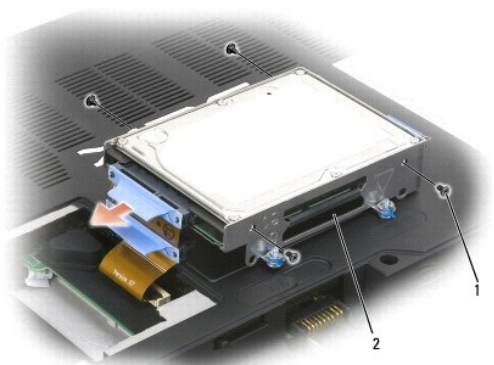
1	captive screws (4)
---	--------------------

- Carefully remove the SATA cables from the hard drive or drives that are installed in the cage.

Replacing a Hard Drive in the Hard Drive Cage

- Remove two screws on each side of the hard drive cage to free the hard drive, then lift the drive out of its tray in the cage.

NOTICE: When a hard drive is not in the computer, store it in protective antistatic packaging. See "Protecting Against Electrostatic Discharge" in the *Product Information Guide*.



1	screws	2	hard drive cage
---	--------	---	-----------------

- Remove the new hard drive from its packaging.
Save the original packaging for storing or shipping the hard drive.
- Place the new hard drive into the drive cage tray and secure it with two screws on each side.


- a. Install the hard drive so that the manufacturer's label faces the bottom of the drive cage and the SATA connectors are at the open end of the cage.
- b. Install the primary hard drive in the tray labeled **0**. You can install a secondary hard drive in the tray labeled **1**.

Replacing the Hard Drive Cage


1. Place the hard drive cage upside down on the bottom of the computer with the SATA connectors and cables aligned, and then firmly press the cables onto the hard drives' connectors.
2. Flip the hard drive cage over and into the hard drive bay.
3. Tighten the screws on the drive cage.
4. Replace the hard drive cover and tighten the screws.
5. If you have replaced the primary hard drive with a new hard drive that is not already pre-imaged, install the operating system and drivers for your computer. See [Restoring Your Operating System](#) and [Reinstalling Drivers and Utilities](#).


Memory


You can increase your computer memory by installing memory modules on the system board. See [Specifications](#) for information on the memory supported by your computer. Install only memory modules that are intended for your computer.

 **NOTE:** In order to take advantage of the dual channel bandwidth capability, both memory slots must be populated and must match in size.


 **NOTE:** Memory modules purchased from Dell are covered under your computer warranty.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions located in the *Product Information Guide*.

 **NOTICE:** To avoid electrostatic discharge, ground yourself by using a wrist grounding strap or by periodically touching an unpainted metal surface (such as a connector on the back of the computer).

 **NOTICE:** To avoid damaging the system board, you must remove the battery before you begin working inside the computer.

1. Follow the procedures in [Before You Begin](#).
2. Ground yourself by touching one of the metal connectors on the back of the computer.

 **NOTE:** If you leave the area, ground yourself again when you return to the computer.

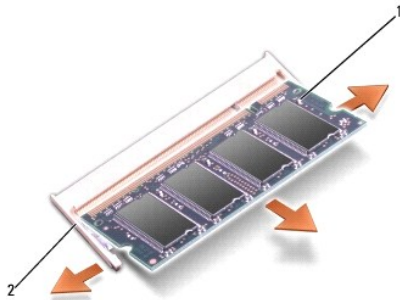
3. Turn the computer over, loosen the captive screws on the memory module cover, and then remove the cover.



1	captive screws (2)	2	memory module cover
---	--------------------	---	---------------------

 **NOTICE:** To prevent damage to the memory module connector, do not use tools to spread the memory-module securing clips.

4. If you are replacing a memory module, remove the existing module:
 - a. Use your fingertips to carefully spread apart the securing clips on each end of the memory module connector until the module pops up.
 - b. Remove the module from the connector.



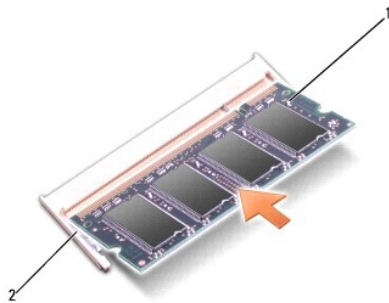
1	memory module	2	securing clip
---	---------------	---	---------------

➡ **NOTICE:** If you need to install memory modules in two connectors, install a memory module in the connector labeled "DIMMA" before you install a module in the connector labeled "DIMMB." Insert memory modules at a 45-degree angle to avoid damaging the connector.

5. Ground yourself and install the new memory module:

🔧 **NOTE:** If the memory module is not installed properly, the computer may not boot properly. No error message indicates this failure.

- Align the notch in the module edge connector with the tab in the connector slot.
- Slide the module firmly into the slot at a 45-degree angle, and rotate the module down until it clicks into place. If you do not feel the click, remove the module and reinstall it.



1	memory module	2	securing clip
---	---------------	---	---------------

6. Replace the memory module cover.

➡ **NOTICE:** If the cover is difficult to close, remove the module and reinstall it. Forcing the cover to close may damage your computer.

7. Insert the battery into the battery bay, or connect the AC adapter to your computer and an electrical outlet.

8. Turn on the computer.


As the computer boots, it detects the additional memory and automatically updates the system configuration information. If prompted, press <F1> to continue.

Confirm the amount of memory installed in the computer:

1. *Windows® XP*

- o Right-click the My Computer icon on your desktop, then click **Properties**→ **General**.

1. *Windows Vista™*

- o Click the Windows Vista Start button , right-click **Computer**, and then click **Properties**.

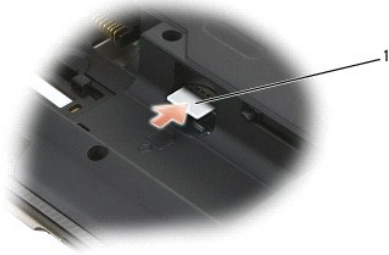
Subscriber Identity Module

Subscriber Identity Modules (SIM) identify users uniquely through an International Mobile Subscriber Identity.

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

NOTE: Only GSM (HSDPA) type cards need a SIM. EVDO cards do not use a SIM.

1. Follow the procedures in [Before You Begin](#).
2. In the battery bay, locate the SIM compartment.
3. Slide in the SIM into the compartment as indicated on the battery bay.



1	SIM
---	-----

Internal Card With Bluetooth™ Wireless Technology

CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If you ordered a card with Bluetooth wireless technology with your computer, it is already installed. The Bluetooth wireless technology card is located in the battery compartment.

1. Follow the procedures in [Before You Begin](#).
 2. Ground yourself by touching one of the metal connectors on the back of the computer.
- NOTE:** If you leave the area, ground yourself again when you return to the computer.
3. Pull the card out of the battery compartment so that you can disconnect the card from its cable and remove it from the computer.



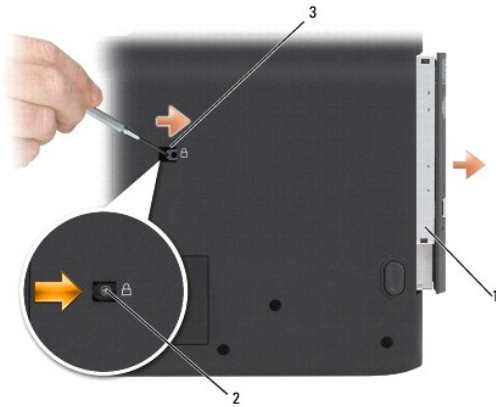
1	internal card with Bluetooth™ Wireless technology	2	cable
3	bluetooth compartment		

4. To replace the card, connect the card to the cable and insert it into the compartment.
5. Replace the battery.

Optical Drive

⚠ CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

1. Follow the procedures in [Before You Begin](#).
2. Save and close any open files, exit any open programs, and shut down the computer.
3. Remove the optical-drive locking screw.
4. Insert a scribe into the notch and push it to the side to release the drive from the bay.



1	optical drive	2	locking screw
3	notch		

5. Slide the drive out of the bay.

To reinstall the optical drive, slide the drive into the drive bay and snap it into place. Then replace the optical-drive security screw.

[Back to Contents Page](#)


[Back to Contents Page](#)

Securing Your Computer


Dell™ XPS™ M1730 Owner's Manual

- [Security Cable Lock](#)
- [Passwords](#)

Security Cable Lock

 **NOTE:** Your computer does not ship with a security cable lock.

A security cable lock is a commercially available antitheft device. To use the lock, attach it to the security cable slot on your Dell™ computer. For more information, see the instructions included with the device.


 **NOTICE:** Before you buy an antitheft device, ensure that it will work with the security cable slot on your computer.



Passwords

Passwords prevent unauthorized access to your computer. When using passwords, observe the following guidelines:

- 1 Choose a password that you can remember, but not one that is easy to guess. For example, do not use the names of family members or pets for password.
- 1 It is recommended that you do not write down your password. If you do write it down, however, ensure that the password is stored in a secure place.
- 1 Do not share your password with other people.
- 1 Ensure that people are not watching you when you type your password.

 **NOTICE:** Passwords provide a high level of security for data in your computer or hard drive. However, they are not foolproof. If you require more security, obtain and use additional forms of protection, such as smart cards, data encryption programs, or PC Cards with encryption features.

Use the **User Accounts** option in the Control Panel in the Microsoft® Windows® operating system to create user accounts or to change password. Once you create a user password, you must enter it each time you turn on or unlock your computer. If you do not enter a password within 2 minutes, the computer returns to its previous operating state.

For more information, see your Windows documentation.


[Back to Contents Page](#)

Setting Up Your Computer

Dell™ XPS™ M1730 Owner's Manual

- [Connecting to the Internet](#)
 - [Transferring Information to a New Computer](#)
 - [Setting Up a Printer](#)
 - [Power Protection Devices](#)
-

Connecting to the Internet

 **NOTE:** ISPs and ISP offerings vary by country.

To connect to the Internet, you need a wireless modem/router or network connection and an Internet service provider (ISP). Your ISP will offer one or more of the following Internet connection options:

- 1 DSL connections that provide high-speed Internet access through your existing telephone line or cellular telephone service. With a DSL connection, you can access the Internet and use your telephone on the same line simultaneously.
- 1 Cable modem connections that provide high-speed Internet access through your local cable TV line.
- 1 Satellite modem connections that provide high-speed Internet access through a satellite television system.
- 1 Wireless LAN connections that provide Internet access using Bluetooth® wireless technology.

 **NOTE:** If you are using a DSL, cable, or satellite modem connection, contact your ISP or cellular telephone service provider for setup instructions.


Setting Up Your Internet Connection


To set up an Internet connection with a provided ISP desktop shortcut:

1. Save and close any open files, and exit any open programs.
2. Double-click the ISP icon on the Microsoft® Windows® desktop.
3. Follow the instructions on the screen to complete the setup.

If you do not have an ISP icon on your desktop or if you want to set up an Internet connection with a different ISP, perform the steps in the following section that corresponds to the operating system your computer is using.


 **NOTE:** If you are having problems connecting to the Internet, see [E-Mail and Internet Problems](#). If you cannot connect to the Internet but have successfully connected in the past, the ISP might have a service outage. Contact your ISP to check the service status, or try connecting again later.

 **NOTE:** Have your ISP information ready. If you do not have an ISP, the **Connect to the Internet** wizard can help you get one.

1. Save and close any open files, and exit any open programs.
 2. Click the Windows Vista Start button  , and click **Control Panel**.
 3. Under **Network and Internet**, click **Connect to the Internet**.
The **Connect to the Internet** window appears.
 4. Click **Wireless** to configure your WLAN/WWAN card to connect to the Internet.
 5. Follow the instructions on the screen and use the setup information provided by your ISP to complete the setup.
-

Transferring Information to a New Computer


You can use your operating system "wizards" to help you transfer files and other data from one computer to another—for example, from an *old* computer to a *new* computer. For instructions, see the following section that corresponds to the operating system that your computer is running.

1. Click the Windows Vista Start button  , and then click **Transfer files and settings→ Start Windows Easy Transfer**.
2. In the **User Account Control** dialog box, click **Continue**.

3. Click **Start a new transfer** or **Continue a transfer in progress**.

Follow the instructions provided on the screen by the Windows Easy Transfer wizard.

Setting Up a Printer

 **NOTICE:** Complete the operating system setup before you connect a printer to the computer.

See the documentation that came with the printer for setup information, including how to:


- 1 Obtain and install updated drivers.
- 1 Connect the printer to the computer.
- 1 Load paper and install the toner or ink cartridge.

For technical assistance, refer to the printer owner's manual or contact the printer manufacturer.

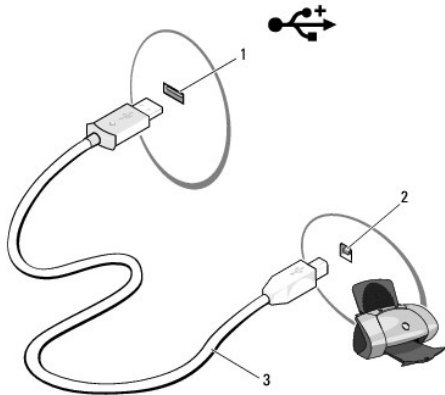
Printer Cable

Your printer connects to your computer with either a USB cable or a parallel cable. Your printer may not come with a printer cable, so if you purchase a cable separately, ensure that it is compatible with your printer and computer. If you purchased a printer cable at the same time you purchased your computer, the cable may arrive in the computer's shipping box.

Connecting a USB Printer

 **NOTE:** You can connect USB devices while the computer is turned on.

1. Complete the operating system setup if you have not already done so.
2. Attach the USB printer cable to the USB connectors on the computer and the printer. The USB connectors fit only one way.



1	USB connector on computer	2	USB connector on printer
3	USB printer cable		

3. Turn on the printer and then turn on the computer.
4. Depending on your computer's operating system, a printer wizard may be available to help you install the printer driver:

If your computer is running the Windows Vista™ operating system, click the Windows Vista Start button , and click **Network→ Add a printer** to start the Add Printer Wizard.

5. Install the printer driver if necessary. See [Reinstalling Drivers and Utilities](#) and the documentation that came with your printer.
-


Power Protection Devices

Several devices are available to protect against power fluctuations and failures:


- 1 Surge protectors
- 1 Line conditioners
- 1 Uninterruptible power supplies (UPS)

Surge Protectors


Surge protectors and power strips equipped with surge protection help prevent damage to your computer from voltage spikes that can occur during electrical storms or after power interruptions. Some surge protector manufacturers include warranty coverage for certain types of damage. Carefully read the device warranty when choosing a surge protector. A device with a higher joule rating offers more protection. Compare joule ratings to determine the relative effectiveness of different devices.

 **NOTICE:** Most surge protectors do not protect against power fluctuations or power interruptions caused by nearby lightning strikes. When lightning occurs in your area, disconnect the telephone line from the telephone wall jack and disconnect your computer from the electrical outlet.

Many surge protectors have a telephone jack for modem protection. See the surge protector documentation for modem connection instructions.


 **NOTICE:** Not all surge protectors offer network adapter protection. Disconnect the network cable from the network wall jack during electrical storms.


Line Conditioners

 **NOTICE:** Line conditioners do not protect against power interruptions.

Line conditioners are designed to maintain AC voltage at a fairly constant level.

Uninterruptible Power Supplies

 **NOTICE:** Loss of power while data is being saved to the hard drive may result in data loss or file damage.

 **NOTE:** To ensure maximum battery operating time, connect only your computer to a UPS. Connect other devices, such as a printer, to a separate power strip that provides surge protection.


A UPS protects against power fluctuations and interruptions. UPS devices contain a battery that provides temporary power to connected devices when AC power is interrupted. The battery charges while AC power is available. See the UPS manufacturer documentation for information on battery operating time and to ensure that the device is approved by Underwriters Laboratories (UL).

[Back to Contents Page](#)

[Back to Contents Page](#)

Specifications

Dell™ XPS™ M1730 Owner's Manual

 **NOTE:** Offerings may vary by region. For more information regarding the configuration of your computer, click **Start→ Help and Support** and select the option to view information about your computer.

Processor	
Processor type	Intel® Core™ 2 Duo processor
	Intel® 45 nm Core™ 2 Duo processor
L1 cache	64 KB
L2 cache	2 MB or 4 MB (Intel Core 2 Duo processor)
	6 MB (Intel 45 nm Core 2 Duo processor)
External bus frequency (front side bus)	800 MHz (Intel Core 2 Duo processor)
	1066 MHz (Intel 45 nm Core 2 Duo processor)

System Information	
System chip set	Mobile Intel 965PM
Data bus width	64 bits
DRAM bus width	dual channel bus
Processor address bus width	32 bits
Flash EPROM	2 MB
PCI bus (PCI-Express used for video controllers)	32 bits x16

ExpressCard	
NOTE: The ExpressCard slot is designed only for ExpressCards. It does NOT support PC Cards.	
ExpressCard connector	one ExpressCard slot (54 mm)
	1.5 V and 3.3 V
Cards supported	ExpressCard/34 (34 mm) and ExpressCard/54 (54 mm)
ExpressCard connector size	26 pins

Memory	
Memory module connector	two user-accessible SODIMM connectors
Memory module capacities	512 MB, 1 GB, 2 GB, and 4 GB
Memory type	1.8 V SODIMM DDR-II
	supports DDR-II up to 667 MHz
Minimum memory	1 GB (via 2 x 512 MB SODIMM DDR-II modules)
Maximum memory	4 GB (via 2 x 2 GB SODIMM DDR-II modules)
NOTE: In order to take advantage of the dual channel bandwidth capability, both memory slots must be populated and must match in size.	

8-in-1 Media Memory card Reader	
8-in-1 media memory card controller	Ricoh R5C833
8-in-1 media memory card connector	8-in-1 combo card connector
Cards supported	<ul style="list-style-type: none">Secure Digital (SD)SDIOMultiMediaCard (MMC)Memory Stick

	<ul style="list-style-type: none"> 1 Memory Stick PRO 1 xD-Picture Card 1 Hi Speed-SD 1 Hi Density-SD
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Ports and Connectors	
Audio	microphone-in connector, two stereo headphones/speakers connector
IEEE 1394a	4-pin mini, nonpowered connector
Consumer IR	sensor compatible with Philips RC6 (receive only)
Network adapter	RJ-45 port
S-video TV-out	7-pin mini-DIN connector (optional S-video to composite video adapter cable; optional S-video to component video adapter cable)
USB	four 4-pin USB 2.0-compliant connectors
Dual link DVI-I (Digital Video Interface)	29-pin connector

Communications	
Network adapter	10/100/1000 Mbps Ethernet LAN on system board
Wireless	internal PCI-e Mini-Card WLAN and WWAN support; internal card with Bluetooth® wireless technology support

Video	
NOTE: Your computer comes in different configurations with different video controller cards.	
Video controller:	NVIDIA GeForce 8800 GS
Video type	discrete video adapter
Data bus	PCI Express x16
Video memory	256 MB
LCD interface	LVDS
TV support	NTSC or PAL in S-video, component, and composite modes

Audio	
Audio type	High Definition Audio (HDA) codec
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)
Interfaces:	
Internal	HDA bus
External	microphone-in connector, two stereo headphones/speakers connector
Speaker	stereo 8-ohm main speakers with two 18 mm transducers bluetooth speaker adapter
Internal speaker amplifier	Class D Stereo 5W per channel
Volume controls	program menus, media control buttons
Audio controller	Sigmatel STAC9228 High Definition Audio codec
Headphones	bluetooth stereo headphones (optional)

Media	
Drive	DVD combo, DVD+RW, Blu-ray®
Interface	Roxio® Creator Plus®, Dell MediaDirect™ 3.3

Display	
Type (active-matrix TFT)	WUXGA

Dimensions:	
Height	245.0 mm (9.64 inches)
Width	383.0 mm (15 inches)
Diagonal	431.8 mm (17 inches)
Maximum resolution	1920 x 1200
Refresh rate	60 Hz
Operating angle	0° (closed) to 142°
Viewing angle (typical):	
Horizontal	±60°
Vertical	±45°
Pixel pitch	0.191 mm (17-inch display)
Power consumption (panel with backlight) (typical):	7.54 W
Controls	brightness can be controlled through keyboard shortcuts

Keyboard	
Number of keys	101 (U.S. and Canada); 88 (Europe); 91 (Japan)
Layout	QWERTY/AZERTY/Kanji
Type	LED backlit

Camera	
Pixel	2.0 mega pixel
Video Resolution	640x480 at 30fps
Diagonal Viewing Angle	60°

Touch Pad	
X/Y position resolution (graphics table mode)	240 cpi
Size:	
Width	73.0-mm (2.88-inch) sensor-active area
Height	42.9-mm (1.69-inch) rectangle

Battery	
Type	9-cell "smart" lithium ion
Dimensions:	
Depth	88.5 mm (3.48 inches)
Height	21.5 mm (0.83 inch)
Width	139.0 mm (5.47 inches)
Weight	0.48 kg (1.1 lb) (9 cell)
Voltage	10.8 VDC
Charge time (approximate):	
Computer off	4 hours (at 100% in 4 hours) 2 hour (at 80% in 2 hours)
Operating time	Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions. See Battery Performance for more information on battery life.
Life span (approximate)	300 discharge/charge cycles
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)

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AC Adapter	
Input voltage	90–264 VAC
Input current (maximum)	3.2 A
Input frequency	47–63 Hz
Output current	11.8 A (continuous), 12.8A peak 4 second pulse
Output power	230 W
Rated output voltage	19.5 VDC
Dimensions:	
Height	43 mm (1.7 inches)
Width	100 mm (3.93 inches)
Depth	200 mm (7.87 inches)
Weight (with cables)	1.3 kg (2.86 lb)
Temperature range:	
Operating	0° to 40°C (32° to 104°F)
Storage	–40° to 65°C (–40° to 158°F)

Physical	
Height	50.8 mm (2.0 inches)
Width	406 mm (16 inches)
Depth	302 mm (11.9 inches)
Weight (with 9-cell battery and optical drive)	4.81 kg (10.6 lb)

Environmental	
Temperature range:	
Operating	0° to 35°C (32° to 95°F)
Storage	–40° to 65°C (–40° to 149°F)
Relative humidity:	
Operating	10% to 90% (noncondensing)
Storage	5% to 95% (noncondensing)
Maximum vibration (using a random-vibration spectrum that simulates user environment):	
Operating	0.66 GRMS
Storage	1.3 GRMS
Maximum shock (measured with a 2-ms half-sine pulse):	
Operating	143 G
Storage	163 G
Altitude (maximum):	
Operating	–15.2 to 3048 m (–50 to 10,000 ft)
Storage	–15.2 to 10,668 m (–50 to 35,000 ft)

[Back to Contents Page](#)

[Back to Contents Page](#)

Dell™ XPS™ M1730 Owner's Manual

Notes, Notices, and Cautions



NOTE: A NOTE indicates important information that helps you make better use of your computer.



NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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April 2008 P/N TM373 Rev. A04

[Back to Contents Page](#)

Traveling With Your Computer

Dell™ XPS™ M1730 Owner's Manual

- [Identifying Your Computer](#)
 - [Packing the Computer](#)
 - [Travel Tips](#)
-

Identifying Your Computer

- 1 Attach a name tag or business card to the computer.
 - 1 Write down your Service Tag and store it in a safe place away from the computer or carrying case. Use the Service Tag if you need to report a loss or theft to law enforcement officials and to Dell.
 - 1 Create a file on the Microsoft® Windows® desktop called **if_found**. Place information such as your name, address, and phone number in this file.
 - 1 Contact your credit card company and ask if it offers coded identification tags.
-

Packing the Computer

- 1 Remove any external devices attached to the computer and store them in a safe place. Remove any cables attached to installed PC Cards, and remove any extended PC Cards.
- 1 To make the computer as light as possible, replace any devices installed in the module bay with the Dell TravelLite™ module.
- 1 Fully charge the main battery and any spare batteries that you plan to carry with you.
- 1 Shut down the computer.
- 1 Disconnect the AC adapter.

➡ **NOTICE:** When the display is closed, extraneous items on the keyboard or palm rest could damage the display.

- 1 Remove any extraneous items, such as paper clips, pens, and paper, from the keyboard and palm rest and close the display.
- 1 Use the optional Dell™ carrying case to pack the computer and its accessories together safely.
- 1 Avoid packing the computer with items such as shaving cream, colognes, perfumes, or food.

➡ **NOTICE:** If the computer has been exposed to extreme temperatures, allow it to acclimate to room temperature for 1 hour before turning it on.

- 1 Protect the computer, the batteries, and the hard drive from hazards such as extreme temperatures and overexposure to sunlight, dirt, dust, or liquids.
 - 1 Pack the computer so that it does not slide around in the trunk of your car or in an overhead storage compartment.
-

Travel Tips

➡ **NOTICE:** Do not move the computer while using the optical drive to prevent loss of data.

➡ **NOTICE:** Do not check the computer as baggage.

- 1 Consider changing your power management options to maximize battery operating time.
- 1 If you are traveling internationally, carry proof of ownership—or of your right to use the computer if it is company-owned—to speed your passage through customs. Investigate the customs regulations of the countries you plan to visit, and consider acquiring an international carnet (also known as a *merchandise passport*) from your government.
- 1 Find out what type of electrical outlets are used in the countries you will visit, and have appropriate power adapters.
- 1 Check with your credit card company for information about the kinds of emergency travel assistance it offers to users of portable computers.

Traveling by Air

➡ **NOTICE:** Do not walk the computer through a metal detector. Send the computer through an X-ray machine or have it hand-inspected.

- 1 Ensure that you have a charged battery available in case you are asked to turn on the computer.
- 1 Prior to entering the airplane, verify that using a computer is permitted. Some airlines forbid the use of electronic devices during flight. All airlines forbid the use of electronic devices during takeoff and landing.

[Back to Contents Page](#)

Troubleshooting

Dell™ XPS™ M1730 Owner's Manual


- [Dell Technical Update Service](#)
- [Dell Diagnostics](#)
- [Dell Support Utility](#)
- [Drive Problems](#)
- [E-Mail and Internet Problems](#)
- [Error Messages](#)
- [ExpressCard Problems](#)
- [IEEE 1394 Device Problems](#)
- [Keyboard Problems](#)
- [Lockups and Software Problems](#)
- [Memory Problems](#)
- [Network Problems](#)
- [Power Problems](#)
- [Printer Problems](#)
- [Scanner Problems](#)
- [Sound and Speaker Problems](#)
- [Touch Pad or Mouse Problems](#)
- [Video and Display Problems](#)
- [Drivers](#)
- [Troubleshooting Software and Hardware Problems in the Microsoft® Windows® XP and Microsoft Windows Vista™ Operating Systems](#)
- [Restoring Your Operating System](#)

Dell Technical Update Service

The Dell Technical Update service provides proactive e-mail notification of software and hardware updates for your computer. The service is free and can be customized for content, format, and how frequently you receive notifications.

To enroll for the Dell Technical Update service, go to support.dell.com/technicalupdate.

Dell Diagnostics

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

When to Use the Dell Diagnostics

If you experience a problem with your computer, perform the checks in [Lockups and Software Problems](#) and run the Dell Diagnostics before you contact Dell for technical assistance.

It is recommended that you print these procedures before you begin.


The Dell Diagnostics only operate on Dell computers.

Enter system setup, review your computer's configuration information, and ensure that the device you want to test displays in system setup and is active (see [System Setup Screens](#)).

Start the Dell Diagnostics from your hard drive or from your *Drivers and Utilities* media (see [Drivers and Utilities Media](#)).


Starting the Dell Diagnostics From Your Hard Drive

The Dell Diagnostics is located on a hidden diagnostic utility partition on your hard drive.


 **NOTE:** If your computer cannot display a screen image, contact Dell (see [Contacting Dell](#)).

1. Ensure that the computer is connected to an electrical outlet that is known to be working properly.
2. Turn on (or restart) your computer.
3. Start the Dell Diagnostics in one of the following two ways:
 - a. When the DELL™ logo appears, press <F12> immediately. Select Diagnostics from the boot menu, and then press <Enter>.

 **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop, then shut down your computer and try again.

 **NOTE:** Before attempting option B, the computer must be powered down completely.

- b. Press and hold the <Fn> key while powering the computer on.

 **NOTE:** If you see a message stating that no diagnostics utility partition has been found, run the Dell Diagnostics from your *Drivers and Utilities* media.

The computer runs the Pre-boot System Assessment, a series of initial tests of your system board, keyboard, hard drive, and display.


- 1 During the assessment, answer any questions that appear.
- 1 If a failure is detected, the computer stops and beeps. To stop the assessment and restart the computer, press <n>; to continue to the next test, press <y>; to retest the component that failed, press <r>.
- 1 If failures are detected during the Pre-boot System Assessment, write down the error code(s) and contact Dell.

If the Pre-boot System Assessment completes successfully, you receive the message **Booting Dell Diagnostic Utility Partition**. Press any key to continue.


4. Press any key to start the Dell Diagnostics from the diagnostics utility partition on your hard drive.

Starting the Dell Diagnostics From the Drivers and Utilities Media


1. Insert your *Drivers and Utilities* media.
2. Shut down and restart the computer.
3. When the DELL logo appears, press <F12> immediately.

 **NOTE:** Keyboard failure may result when a key on the keyboard is held down for extended periods of time. To avoid possible keyboard failure, press and release <F12> in even intervals until the boot device menu appears.

4. At the boot device menu, use the up- and down-arrow keys to highlight **CD/DVD/CD-RW**, and then press <Enter>.

 **NOTE:** The Quickboot feature changes the boot sequence for the current boot only. Upon restart, the computer boots according to the boot sequence specified in system setup.

5. Select the **Boot from CD-ROM** option from the menu that appears, and then press <Enter>.
6. Type 1 to start the *Drivers and Utilities* menu, and then press <Enter>.
7. Select **Run the 32 Bit Dell Diagnostics** from the numbered list. If multiple versions are listed, select the version appropriate for your computer.
8. At the Dell Diagnostics **Main Menu**, select the test you want to run.

 **NOTE:** Write down any error codes and problem descriptions exactly as they appear and follow the instructions on the screen.

9. After all tests have completed, close the test window to return to the Dell Diagnostics **Main Menu**.
10. Remove your *Drivers and Utilities* media, then close the **Main Menu** window to exit the Dell Diagnostics and restart the computer.

Dell Diagnostics Main Menu

After the Dell Diagnostics loads and the **Main Menu** screen appears, click the button for the option you want.

 **NOTE:** It is recommended that you select **Test: System** to run a complete test on your computer.

Option	Function
Test Memory	Run the stand-alone memory test
Test System	Run System Diagnostics
Exit	Exit the Diagnostics

After you have selected the **Test: System** option from the main menu, the following menu appears.

 **NOTE:** It is recommended that you select **Extended Test** from the menu below to run a more thorough check of the devices in the computer.

Option	Function
Express Test	Performs a quick test of system devices. The test typically takes 10 to 20 minutes and requires no interaction on your part. Run Express Test first to increase the possibility of tracing the problem quickly.
Extended	Performs a thorough check of system devices. The test typically takes an hour or more and periodically requires your input to answer specific

Test	questions.
Custom Test	Tests a specific device in the system and can be used to customize the tests you want to run.
Symptom Tree	Lists a number of common symptoms and allows you to select a test based on the symptom of the problem you are having.

For any problem encountered during a test, a message appears with an error code and a description of the problem. Write down the error code and problem description exactly as it appears and follow the instructions on the screen. If you cannot resolve the problem, contact Dell (see [Contacting Dell](#)).

 **NOTE:** The Service Tag for your computer is located at the top of each test screen. When contacting Dell support, have your Service Tag ready.

The following tabs provide additional information for tests run from the **Custom Test** or **Symptom Tree** option:

Tab	Function
Results	Displays the results of the test and any error conditions encountered.
Errors	Displays error conditions encountered, error codes, and the problem description.
Help	Describes the test and any requirements for running the test.
Configuration	Displays your hardware configuration for the selected device. The Dell Diagnostics obtains configuration information for all devices from system setup, memory, and various internal tests, and it displays the information in the device list in the left pane of the screen. The device list may not display the names of all the components installed on your computer or all devices attached to your computer.
Parameters	Allows you to customize the test by changing the test settings.

Dell Support Utility



The Dell Support Utility is customized for your computing environment. This utility provides self-support information, software updates, and health scans for your computer. Use this utility to do the following:

- 1 Check your computing environment
- 1 View the Dell Support Utility settings
- 1 Access the help file for the Dell Support Utility
- 1 View frequently asked questions
- 1 Learn more about the Dell Support Utility
- 1 Turn the Dell Support Utility off


For more information about the Dell Support Utility, click the question mark (?) at the top of the Dell Support window.


To access the Dell Support Utility:

- 1 Click the Dell Support icon  in the notification area.

 **NOTE:** The  icon functions vary when clicking, double-clicking, or right-clicking.

Or

- 1 Click the **Start**  → **All Programs** → **Dell Support** → **Dell Support Settings**. Ensure that the **Show icon on the taskbar** option is checked.

 **NOTE:** If the Dell Support Utility is not available from the **Start** menu, go to support.dell.com and download the software.

Drive Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Fill out the [Diagnostics Checklist](#) as you complete these checks.

Ensure that Microsoft® Windows® recognizes the drive —

Windows XP

Click **Start** → **My Computer**.

Windows Vista™

Click **Start**  → **Computer**.

If the drive is not listed, perform a full scan with your antivirus software to check for and remove viruses. Viruses can sometimes prevent Windows from recognizing the drive.

Test the drive —

1. Insert another floppy disk, CD, DVD, or BD to eliminate the possibility that the original media is defective.
1. Insert a bootable floppy disk and restart the computer.

Clean the drive or disk —

See [Cleaning Your Computer](#).

Ensure that the CD, DVD, or BD media is snapped onto the spindle

Check the cable connections


Check for hardware incompatibilities —


See [Troubleshooting Software and Hardware Problems in the Microsoft® Windows® XP and Microsoft Windows Vista™ Operating Systems](#).

Run the Dell Diagnostics —

See [Dell Diagnostics](#).

Optical drive problems

 **NOTE:** High-speed optical drive vibration is normal and may cause noise, which does not indicate a defect in the drive or the media.

 **NOTE:** Because of different regions worldwide and different disc formats, not all DVD titles work in all DVD drives.

Problems writing to a CD-RW, DVD+/-RW, or BD-RE drive

Close other programs —

CD-RW, DVD+/-RW, and BD-RE drives must receive a steady stream of data when writing. If the stream is interrupted, an error occurs. Try closing all programs before you write to the drive.

Turn off Sleep state in Windows before writing to a CD/DVD/BD disc —

See [Standby and Sleep Mode](#) for information on Sleep state.

Change the write speed to a slower rate —

See the help files for your CD, DVD, or BD creation software.

The drive tray cannot eject

1. Ensure that the computer is shut down.
2. Straighten a paper clip and insert one end into the eject hole at the front of the drive, then push firmly until the tray is partially ejected.
3. Gently pull out the tray until it stops.

The drive makes an unfamiliar scraping or grinding sound

1. Ensure that the sound is not caused by the program that is running.
1. Ensure that the disc is inserted properly.

Hard drive problems

Allow the computer to cool before turning it on —


A hot hard drive may prevent the operating system from starting. Try allowing the computer to return to room temperature before turning it on.

Run Check Disk —

Windows XP


1. Click **Start** and click **My Computer**.
2. Right-click **Local Disk C:**.
3. Click **Properties**→ **Tools**→ **Check Now**.
4. Click **Scan for and attempt recovery of bad sectors and click Start**.

Windows Vista

1. Click **Start**  and click **Computer**.
2. Right-click **Local Disk C:**.
3. Click **Properties**→ **Tools**→ **Check Now**.

The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to continue the desired action.
4. Follow the instructions on the screen.

E-Mail and Internet Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the Windows Mail Security Settings —

If you cannot open your e-mail attachments:

1. In Windows Mail, click **Tools**, click **Options**, and then click **Security**.
2. Click **Do not allow attachments** to remove the checkmark.

Ensure that you are connected to the Internet

Ensure that you have subscribed to an Internet service provider. With the Windows Mail open, click **File**. If **Work Offline** has a checkmark next to it, click the checkmark to remove it, and then connect to the Internet. For help, contact your Internet service provider.

Scan the computer for spyware —

If you are experiencing slow computer performance, you frequently receive pop-up advertisements, or you are having problems connecting to the Internet, your computer might be infected with spyware. Use an anti-virus program that includes anti-spyware protection (your program may require an upgrade) to scan the computer and remove spyware. For more information, go to support.dell.com and search for the keyword *spyware*.

Error Messages

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If the message is not listed, see the documentation for the operating system or the program that was running when the message appeared.

Auxiliary device failure —

The touch pad or external mouse may be faulty. For an external mouse, check the cable connection. Enable the **Pointing Device** option in the system setup program (see [System Setup Screens](#)). If the problem persists, contact Dell (see [Contacting Dell](#)).

Bad command or file name —

Ensure that you have spelled the command correctly, put spaces in the proper place, and used the correct pathname.

Cache disabled due to failure —

The primary cache internal to the microprocessor has failed. Contact Dell (see [Contacting Dell](#)).

CD drive controller failure —

The CD drive does not respond to commands from the computer (see [Drive Problems](#)).

Data error —

The hard drive cannot read the data (see [Drive Problems](#)).

Decreasing available memory —

One or more memory modules may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

Disk C: failed initialization —

The hard drive failed initialization. Run the hard drive tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Drive not ready —

The operation requires a hard drive in the bay before it can continue. Install a hard drive in the hard drive bay (see [Hard Drive](#)).

Error reading PCMCIA card —

The computer cannot identify the ExpressCard. Reinsert the card or try another card (see [ExpressCards](#)).

Extended memory size has changed —

The amount of memory recorded in NVRAM does not match the memory installed in the computer. Restart the computer. If the error appears again, contact Dell (see [Contacting Dell](#)).

The file being copied is too large for the destination drive —

The file that you are trying to copy is too large to fit on the disk, or the disk is full. Try copying the file to a different disk or use a larger capacity disk.

A filename cannot contain any of the following characters: \ / : * ? " < > | —

Do not use these characters in filenames.

Gate A20 failure —

A memory module may be loose. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

General failure —

The operating system is unable to carry out the command. The message is usually followed by specific information—for example, `Printer out of paper`. Take the appropriate action.

Hard-disk drive configuration error —

The computer cannot identify the drive type. Shut down the computer, remove the hard drive (see [Hard Drive](#)), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. Run the Hard Disk Drive tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Hard-disk drive controller failure 0 —

The hard drive does not respond to commands from the computer. Shut down the computer, remove the hard drive (see [Hard Drive](#)), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Hard-disk drive failure —

The hard drive does not respond to commands from the computer. Shut down the computer, remove the hard drive (see [Hard Drive](#)), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Hard-disk drive read failure —

The hard drive may be defective. Shut down the computer, remove the hard drive (see [Hard Drive](#)), and boot the computer from a CD. Then, shut down the computer, reinstall the hard drive, and restart the computer. If the problem persists, try another drive. Run the Hard Disk Drive tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Insert bootable media —

The operating system is trying to boot to nonbootable media, such as a floppy disk or CD. Insert bootable media.

Invalid configuration information-please run System Setup Program —

The system configuration information does not match the hardware configuration. The message is most likely to occur after a memory module is installed. Correct the appropriate options in the system setup program (see [System Setup Screens](#)).

Keyboard clock line failure —

For external keyboards, check the cable connection. Run the Keyboard Controller test in the Dell Diagnostics (see [Dell Diagnostics](#)).

Keyboard controller failure —

For external keyboards, check the cable connection. Restart the computer, and avoid touching the keyboard or the mouse during the boot routine. Run the Keyboard Controller test in the Dell Diagnostics (see [Dell Diagnostics](#)).

Keyboard data line failure —

For external keyboards, check the cable connection. Run the Keyboard Controller test in the Dell Diagnostics (see [Dell Diagnostics](#)).

Keyboard stuck key failure —

For external keyboards or keypads, check the cable connection. Restart the computer, and avoid touching the keyboard or keys during the boot routine. Run the Stuck Key test in the Dell Diagnostics (see [Dell Diagnostics](#)).

Licensed content is not accessible in MediaDirect —

Dell MediaDirect™ cannot verify the Digital Rights Management (DRM) restrictions on the file, so the file cannot be played (see [Dell MediaDirect problems](#)).

Memory address line failure at address, read value expecting value —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

Memory allocation error —

The software you are attempting to run is conflicting with the operating system, another program, or a utility. Shut down the computer, wait 30 seconds, and then restart it. Try to run the program again. If the error message still appears, see the software documentation.

Memory data line failure at address, read value expecting value —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

Memory double word logic failure at address, read value expecting value —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

Memory odd/even logic failure at address, read value expecting value —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

Memory write/read failure at address, read value expecting value —

A memory module may be faulty or improperly seated. Reinstall the memory modules and, if necessary, replace them (see [Memory](#)).

No boot device available —

The computer cannot find the hard drive. If the hard drive is your boot device, ensure that the drive is installed, properly seated, and partitioned as a boot device.

No boot sector on hard drive —

The operating system may be corrupted. Contact Dell (see [Contacting Dell](#)).

No timer tick interrupt —

A chip on the system board may be malfunctioning. Run the System Set tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Not enough memory or resources. Exit some programs and try again —

You have too many programs open. Close all windows and open the program that you want to use.

Operating system not found —

Reinstall the hard drive (see [Hard Drive](#)). If the problem persists, contact Dell (see [Contacting Dell](#)).

Optional ROM bad checksum —

The optional ROM has failed. Contact Dell (see [Contacting Dell](#)).

A required .DLL file was not found —


The program that you are trying to open is missing an essential file. Remove and then reinstall the program.

Windows XP

1. Click **Start→ Control Panel→ Add or Remove Programs→ Programs and Features**.
2. Select the program you want to remove.


3. Click **Uninstall**.
4. See the program documentation for installation instructions.

Windows Vista

1. Click **Start**  → **Control Panel** → **Programs** → **Programs and Features**.
2. Select the program you want to remove.
3. Click **Uninstall**.

See the program documentation for installation instructions.

Sector not found —

The operating system cannot locate a sector on the hard drive. You may have a defective sector or corrupted FAT on the hard drive. Run the Windows error-checking utility to check the file structure on the hard drive. See Windows Help and Support for instructions (click **Start**  → **Help and Support**). If a large number of sectors are defective, back up the data (if possible), and then reformat the hard drive.

Seek error —

The operating system cannot find a specific track on the hard drive.

Shutdown failure —

A chip on the system board may be malfunctioning. Run the System Set tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Time-of-day clock lost power —

System configuration settings are corrupted. Connect your computer to an electrical outlet to charge the battery. If the problem persists, try to restore the data by entering the system setup program, then immediately exit the program (see [System Setup Screens](#)). If the message reappears, contact Dell (see [Contacting Dell](#)).

Time-of-day clock stopped —

The reserve battery that supports the system configuration settings may require recharging. Connect your computer to an electrical outlet to charge the battery. If the problem persists, contact Dell (see [Contacting Dell](#)).

Time-of-day not set-please run the System Setup program —

The time or date stored in the system setup program does not match the system clock. Correct the settings for the **Date** and **Time** options (see [System Setup Screens](#)).

Timer chip counter 2 failed —

A chip on the system board may be malfunctioning. Run the System Set tests in the Dell Diagnostics (see [Dell Diagnostics](#)).

Unexpected interrupt in protected mode —

The keyboard controller may be malfunctioning, or a memory module may be loose. Run the System Memory tests and the Keyboard Controller test in the Dell Diagnostics (see [Dell Diagnostics](#)).

x:\ is not accessible. The device is not ready —

Insert a disk into the drive and try again.

Warning: Battery is critically low —

The battery is running out of charge. Replace the battery, or connect the computer to an electrical outlet; otherwise, activate hibernate mode or shut down the computer.

ExpressCard Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the ExpressCard —

Ensure that the ExpressCard is properly inserted into the connector.

Check that the card is recognized by Windows —

Double-click the **Safely Remove Hardware** icon in the Windows taskbar. Some cards do not support this feature. If the card supports this Windows feature, the card will be listed.


If you have problems with a Dell-provided ExpressCard —

Contact Dell (see [Contacting Dell](#)). Also, for Mobile Broadband (WWAN) ExpressCards, see [Mobile Broadband \(Wireless Wide Area Network \[WWAN\]\)](#).

If you have problems with an ExpressCard not provided by Dell —

Contact the ExpressCard manufacturer.

IEEE 1394 Device Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.


Ensure that the IEEE 1394 device is recognized by Windows —

Windows XP

Click **Start** and click **Control Panel**.

1. Under **Pick a Category**, click **Performance and Maintenance**→ **System**→ **System Properties**→ **Hardware**→ **Device Manager**.

Windows Vista

1. Click **Start**  → **Control Panel**→ **Hardware and Sound**.
2. Click **Device Manager**.


If your IEEE 1394 device is listed, Windows recognizes the device.

If you have problems with a Dell-provided IEEE 1394 device — Contact Dell or the IEEE 1394 device manufacturer (see [Contacting Dell](#)).

If you have problems with an IEEE 1394 device not provided by Dell — Contact Dell or the IEEE 1394 device manufacturer (see [Contacting Dell](#)).

Ensure that the IEEE 1394 device is properly inserted into the connector.

Keyboard Problems


 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Fill out the [Diagnostics Checklist](#) as you perform the various checks.



NOTE: Use the integrated keyboard when running the Dell Diagnostics or the system setup program. When you attach an external keyboard, the integrated keyboard remains fully functional.

External keyboard problems


 **NOTE:** When you attach an external keyboard, the integrated keyboard remains fully functional.

Check the keyboard cable —

Shut down the computer, disconnect the keyboard cable and check it for damage, then firmly reconnect the cable.


If you are using a keyboard extension cable, disconnect it and connect the keyboard directly to the computer.

Check the external keyboard —

1. Shut down the computer, wait 1 minute, and then turn it on again.
2. Verify that the numbers, capitals, and scroll lock lights on the keyboard blink during the boot routine.
3. From the Windows desktop, click **Start**  → **All Programs** → **Accessories** → **Notepad**.
4. Type some characters on the external keyboard and verify that they appear on the display.

If you cannot verify these steps, you may have a defective external keyboard.

To verify that the problem is with the external keyboard, check the integrated keyboard —

1. Shut down the computer.
2. Disconnect the external keyboard.
3. Turn on the computer.
4. From the Windows desktop, click **Start**  → **All Programs** → **Accessories** → **Notepad**.
5. Type some characters on the internal keyboard and verify that they appear on the display.

If the characters appear now, but did not with the external keyboard, you may have a defective external keyboard. Contact Dell (see [Contacting Dell](#)).

Run the keyboard diagnostics tests —


Run the PC-AT Compatible Keyboards tests in the Dell Diagnostics (see [Dell Diagnostics](#)). If the tests indicate a defective external keyboard, contact Dell (see [Contacting Dell](#)).

Unexpected characters

Disable the numeric keypad —

Press <Num Lk> to disable the numeric keypad if numbers are displayed instead of letters. Verify that the numbers lock light is not lit.

Lockups and Software Problems


 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

The computer does not start

Check the ac adapter —

Ensure that the AC adapter is firmly connected to the computer and to the electrical outlet.

The computer stops responding

 **NOTICE:** You might lose data if you are unable to perform an operating system shutdown.


Turn the computer off —

If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off, then restart your computer.

A program stops responding or crashes repeatedly

End the program —

1. Press <Ctrl><Shift><Esc> simultaneously.
2. Click the **Applications** tab and select the program that is no longer responding.
3. Click **End Task**.

 **NOTE:** The chkdisk program may run when you restart the computer. Follow the instructions on the screen.

Check the software documentation —

If necessary, uninstall and then reinstall the program. Software usually includes installation instructions in its documentation or on a floppy disk or CD.

A program is designed for an earlier Microsoft® Windows® operating system

Run the Program Compatibility Wizard


Windows XP

The Program Compatibility Wizard configures a program so that it runs in an environment similar to non-XP operating system environments.

1. Click **Start**→ **All Programs**→ **Accessories**→ **Program Compatibility Wizard**→ **Next**.
2. Follow the instructions on the screen.

Windows Vista

The Program Compatibility Wizard configures a program so that it runs in an environment similar to non-Windows Vista operating system environments.

1. Click **Start**  → **Control Panel**→ **Programs**→ **Use an older program with this version of Windows**.
2. In the welcome screen, click **Next**.

Follow the instructions on the screen.

A solid blue screen appears

Turn the computer off —

If you are unable to get a response by pressing a key on your keyboard or moving your mouse, press and hold the power button for at least 8 to 10 seconds until the computer turns off, then restart your computer.

Dell MediaDirect problems

Check the Dell MediaDirect help file for information —

Use the **Help** menu to access Dell MediaDirect Help.

To play movies with Dell MediaDirect, you must have a DVD drive and the Dell DVD Player —

If you purchased a DVD drive with your computer, this software should already be installed.

Video Quality problems —

Turn off the **Use Hardware Acceleration** option. This feature takes advantage of the special processing in some graphics cards to reduce processor requirements when playing DVDs and certain types of video files.

Cannot play some media files —

Because Dell MediaDirect provides access to media files outside the Windows operating system environment, access to licensed content is restricted. Licensed content is digital content that has Digital Rights Management (DRM) applied to it. The Dell MediaDirect environment cannot verify the DRM restrictions, so the licensed files cannot be played. Licensed music and video files have a lock icon next to them. You can access licensed files in the Windows operating system environment.

Adjusting the color settings for movies that contain scenes that are too dark or too bright —

Click **EagleVision** to use a video enhancement technology that detects video content and dynamically adjusts the brightness/contrast/saturation ratios.



NOTICE: You cannot reinstall the Dell MediaDirect feature if you voluntarily reformat the hard drive. Contact Dell for assistance (see [Contacting Dell](#)).

Other software problems

Check the software documentation or contact the software manufacturer for troubleshooting information —

- 1 Ensure that the program is compatible with the operating system installed on your computer.
- 1 Ensure that your computer meets the minimum hardware requirements needed to run the software. See the software documentation for information.
- 1 Ensure that the program is installed and configured properly.
- 1 Verify that the device drivers do not conflict with the program.
- 1 If necessary, uninstall and then reinstall the program.

Back up your files immediately

Use a virus-scanning program to check the hard drive, floppy disks, or CDs

Save and close any open files or programs and shut down your computer through the Start menu

Scan the computer for spyware —

If you are experiencing slow computer performance, you frequently receive pop-up advertisements, or you are having problems connecting to the Internet, your computer might be infected with spyware. Use an anti-virus program that includes anti-spyware protection (your program may require an upgrade) to scan the computer and remove spyware. For more information, go to support.dell.com and search for the keyword *spyware*.

Run the Dell Diagnostics —

If all tests run successfully, the error condition is related to a software problem (see [Dell Diagnostics](#)).

Memory Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.



CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If you receive an insufficient memory message —

- 1 Save and close any open files and exit any open programs you are not using to see if that resolves the problem.


- 1 See the software documentation for minimum memory requirements. If necessary, install additional memory (see [Memory](#)).
- 1 Reseat the memory modules to ensure that your computer is successfully communicating with the memory (see [Memory](#)).
- 1 Run the Dell Diagnostics (see [Dell Diagnostics](#)).

If you experience other memory problems —

- 1 Reseat the memory modules to ensure that your computer is successfully communicating with the memory (see [Memory](#)).
 - 1 Ensure that you are following the memory installation guidelines (see [Memory](#)).
 - 1 Run the Dell Diagnostics (see [Dell Diagnostics](#)).
-

Network Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the network cable connector —

Ensure that the network cable is firmly inserted into both the network connector on the back of the computer and the network jack.

Check the network lights on the network connector —



No light indicates that no network communication exists. Replace the network cable.



Restart the computer and log on to the network again

Check your network settings —



Contact your network administrator or the person who set up your network to verify that your network settings are correct and that the network is functioning.

Mobile Broadband (Wireless Wide Area Network [WWAN])

 **NOTE:** The Dell Mobile Broadband Card Utility user's guide and the Mobile Broadband ExpressCard user's guide are available through Windows Help and Support (click **Start**  → **Help and Support**). You can also download the Dell Mobile Broadband Card Utility user's guide from support.dell.com.

 **NOTE:** The  icon appears in the notification area if the computer has a Dell WWAN device installed. Double-click the icon to launch the utility.

Activate the Mobile Broadband ExpressCard —

You must activate the Mobile Broadband ExpressCard before you can connect to the network. Position the mouse over the  icon in the notification area to verify the status of the connection. If the card is not activated, follow the card activation instructions located within the Dell Mobile Broadband Card Utility. To access the utility, double-click the  icon located in the taskbar, at the lower-right corner of your screen. If your ExpressCard is not a Dell-branded card, see the manufacturer's instructions for your card.

Check network connection status in the Dell Mobile Broadband Card Utility —

Double-click the  icon to launch the Dell Mobile Broadband Card Utility. Check the status in the main window:

- 1 **No card detected** — Restart the computer, and launch the Dell Mobile Broadband Card Utility again.
 - 1 **Check your WWAN service** — Contact your cellular service provider to verify your plan coverage and supported services.
-


Power Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

Check the power light —


When the power light is lit or blinking, the computer has power. If the power light is blinking, the computer is in Sleep state—press the power button to exit Sleep state. If the light is off, press the power button to turn on the computer.

 **NOTE:** For information on Sleep power state, see [Standby and Sleep Mode](#).

Charge the battery —

The battery charge may be depleted.

1. Reinstall the battery.
2. Use the AC adapter to connect the computer to an electrical outlet.
3. Turn on the computer.

 **NOTE:** Battery operating time (the time the battery can hold a charge) decreases over time. Depending on how often the battery is used and the conditions under which it is used, you may need to purchase a new battery during the life of your computer.

Check the battery status light —

If the battery status light flashes amber or is a steady amber, the battery charge is low or depleted. Connect the computer to an electrical outlet.

If the battery status light flashes blue and amber, the battery is too hot to charge. Shut down the computer, disconnect the computer from the electrical outlet, and then let the battery and computer cool to room temperature.

If the battery status light rapidly flashes amber, the battery may be defective. Contact Dell (see [Contacting Dell](#)).

Check the battery temperature —

If the battery temperature is below 0°C (32°F), the computer will not start.

Test the electrical outlet —

Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Check the AC adapter —

Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light is on.

Connect the computer directly to an electrical outlet —

Bypass power protection devices, power strips, and extension cables to verify that the computer turns on.

Eliminate possible interference —

Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

Adjust the power properties —


See [Configuring Power Management Settings](#).


Reseat the memory modules —

If the computer power light turns on, but the display remains blank, reinstall the memory modules (see [Memory](#)).

Printer Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTE:** If you need technical assistance for your printer, contact the printer's manufacturer.

Check the printer documentation —

See the printer documentation for setup and troubleshooting information.

Ensure that the printer is turned on

Check the printer cable connections —

- 1 See the printer documentation for cable connection information.
- 1 Ensure that the printer cables are securely connected to the printer and the computer.

Test the electrical outlet —


Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Verify that the printer is recognized by Windows —

Windows XP

1. Click **Start**→ **Control Panel**→ **Printers and Other Hardware**→ **View installed printers or fax printers**.
2. If the printer is listed, right-click the printer icon.
3. Click **Properties**→ **Ports**. For a parallel printer, ensure that the **Print to the following port(s)**: setting is **LPT1 (Printer Port)**. For a USB printer, ensure that the **Print to the following port(s)**: setting is **USB**.

Windows Vista


1. Click **Start**  → **Control Panel**→ **Hardware and Sound**→ **Printer**.
2. If the printer is listed, right-click the printer icon.
3. Click **Properties and click Ports**.
4. Adjust the settings, as needed.

Reinstall the printer driver —

See the printer documentation for instructions.

Scanner Problems

 **CAUTION:** Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

 **NOTE:** If you need technical assistance for your scanner, contact the scanner's manufacturer.

Check the scanner documentation —

See the scanner documentation for setup and troubleshooting information.

Unlock the scanner —

Ensure that your scanner is unlocked.

Restart the computer and try the scanner again

Check the cable connections —

- 1 See the scanner documentation for cable connection information.

1. Ensure that the scanner cables are securely connected to the scanner and the computer.

Verify that the scanner is recognized by Microsoft Windows —

Windows XP

1. Click **Start**→ **Control Panel**→ **Printers and Other Hardware**→ **Scanners and Cameras**.
2. If your scanner is listed, Windows recognizes the scanner.

Windows Vista

1. Click **Start**  → **Control Panel**→ **Hardware and Sound**→ **Scanners and Cameras**.

If the scanner is listed, Windows recognizes the scanner.

Reinstall the scanner driver —

See the scanner documentation for instructions.

Sound and Speaker Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.



CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

No sound from integrated speakers

Adjust the Windows volume control —

Double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted. Adjust the volume, bass, or treble controls to eliminate distortion.

Adjust the volume using keyboard shortcuts —

Press <Fn><End> to disable (mute) or re-enable the integrated speakers.

Reinstall the sound (audio) driver —

See [Reinstalling Drivers and Utilities](#).

No sound from external speakers

Ensure that the subwoofer and the speakers are turned on —

See the setup diagram supplied with the speakers. If your speakers have volume controls, adjust the volume, bass, or treble to eliminate distortion.

Adjust the Windows volume control —

Click or double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted.

Disconnect headphones from the headphone connector —

Sound from the speakers is automatically disabled when headphones are connected to the headphone connector.

Test the electrical outlet —

Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Eliminate possible interference —

Turn off nearby fans, fluorescent lights, or halogen lamps to check for interference.

Reinstall the audio driver —

See [Reinstalling Drivers and Utilities](#).

Run the Dell Diagnostics —

See [Dell Diagnostics](#).



NOTE: The volume control in some MP3 players overrides the Windows volume setting. If you have been listening to MP3 songs, ensure that you did not turn the player volume down or off.

No sound from headphones

Check the headphone cable connection —

Ensure that the headphone cable is securely inserted into the headphone connector.

Adjust the Windows volume control —

Click or double-click the speaker icon in the lower-right corner of your screen. Ensure that the volume is turned up and that the sound is not muted.


Touch Pad or Mouse Problems

Check the touch pad settings —

Windows XP

1. Click **Start**→ **Control Panel**→ **Printers and Other Hardware**→ **Mouse**.
2. Try adjusting the settings.

Windows Vista

1. Click **Start**  → **Control Panel**→ **Hardware and Sound**→ **Mouse**.
2. Adjust the settings, as needed.

Check the mouse cable —

Shut down the computer, disconnect the mouse cable and check it for damage, then firmly reconnect the cable.

If you are using a mouse extension cable, disconnect it and connect the mouse directly to the computer.

To verify that the problem is with the mouse, check the touch pad —

1. Shut down the computer.
2. Disconnect the mouse.
3. Turn on the computer.

4. At the Windows desktop, use the touch pad to move the cursor around, select an icon, and open it.

If the touch pad operates correctly, the mouse may be defective.

Check the system setup program settings —

Verify that the system setup program lists the correct device for the pointing device option (the computer automatically recognizes a USB mouse without making any setting adjustments).

Test the mouse controller —

To test the mouse controller (which affects pointer movement) and the operation of the touch pad or mouse buttons, run the Mouse test in the **Pointing Devices** test group in the [Dell Diagnostics](#).

Reinstall the touch pad driver —

See [Reinstalling Drivers and Utilities](#).

Video and Display Problems

Fill out the [Diagnostics Checklist](#) as you complete these checks.



CAUTION: Before you begin any of the procedures in this section, follow the safety instructions in the *Product Information Guide*.

If the display is blank



NOTE: If you are using a program that requires a higher resolution than your computer supports, it is recommended that you attach an external monitor to your computer.

Check the battery —

If you are using a battery to power your computer, the battery charge may be depleted. Connect the computer to an electrical outlet using the AC adapter, and then turn on the computer.

Test the electrical outlet —

Ensure that the electrical outlet is working by testing it with another device, such as a lamp.

Check the AC adapter —

Check the AC adapter cable connections. If the AC adapter has a light, ensure that the light is on.

Connect the computer directly to an electrical outlet —

Bypass power protection devices, power strips, and extension cables to verify that the computer turns on.

Adjust the power properties —

Search for the keyword *sleep* in Windows Help and Support.

Switch the video image —

If your computer is attached to an external monitor, press <Fn><F8> to switch the video image to the display.

If the display is difficult to read

Adjust the brightness —

Press <Fn> and the up- or down-arrow key.

Eliminate possible interference —

Turn off nearby fans, fluorescent lights, halogen lamps, or other appliances.

Rotate the computer to face a different direction —


Eliminate sunlight glare, which can cause poor picture quality.

Adjust the Windows display settings —

Windows XP

1. Click **Start**→ **Control Panel**→ **Appearance and Themes**.
2. Click the area you want to change or click the **Display** icon.
3. Try different settings for **Color quality** and **Screen resolution**.

Windows Vista

1. Click **Start**  → **Control Panel**→ **Hardware and Sound**→ **Personalization**→ **Display Settings**.
2. Adjust **Resolution** and **Colors settings**, as needed.

Run the Video diagnostics tests —

If no error message appears and you still have a display problem, but the display is not completely blank, run the **Video** device group in the [Dell Diagnostics](#), then contact Dell (see [Contacting Dell](#)).

See "Error Messages" —

If an error message appears, see [Error Messages](#).

If only part of the display is readable

Connect an external monitor —

1. Shut down your computer and connect an external monitor to the computer.
 2. Turn on the computer and the monitor, and then adjust the monitor brightness and contrast controls.
- If the external monitor works, the computer display or video controller may be defective. Contact Dell (see [Contacting Dell](#)).

Drivers

What Is a Driver?

A driver is a program that controls a device such as a printer, mouse, or keyboard. All devices require a driver program.

A driver acts like a translator between the device and any other programs that use the device. Each device has its own set of specialized commands that only its driver recognizes.

Dell ships your computer to you with required drivers already installed—no further installation or configuration is needed.



NOTICE: Your *Drivers and Utilities* media may contain drivers for operating systems that are not on your computer. Ensure that you are installing software appropriate for your operating system.

Many drivers, such as the keyboard driver, come with your Microsoft® Windows® operating system. You may need to install drivers if you:

- 1 Upgrade your operating system.
- 1 Reinstall your operating system.
- 1 Connect or install a new device.


Identifying Drivers


If you experience a problem with any device, identify whether the driver is the source of your problem and, if necessary, update the driver.

Windows XP

1. Click **Start→ Control Panel**.
2. Under **Pick a Category**, click **Performance and Maintenance**, and click **System**.
3. In the **System Properties** window, click the **Hardware** tab, and click **Device Manager**.


Windows Vista

1. Click the Windows Vista start button  , and right-click **Computer**.
2. Click **Properties→ Device Manager**.

 **NOTE:** The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to continue.

Scroll down the list of devices and check for an exclamation point (a circle with a [!]) next to the device name. If an exclamation point is next to the device name, you may need to reinstall the driver or install a new driver (see [Reinstalling Drivers and Utilities](#)).

Reinstalling Drivers and Utilities

 **NOTICE:** The Dell Support website at support.dell.com and your *Drivers and Utilities* media provide approved drivers for Dell computers. If you install drivers obtained from other sources, your computer might not work correctly.


Using Windows Device Driver Rollback


If a problem occurs on your computer after you install or update a driver, use Windows Device Driver Rollback to replace the driver with the previously installed version.

Windows XP

1. Click **Start→ My Computer→ Properties→ Hardware→ Device Manager**.
2. Right-click the device for which the new driver was installed and click **Properties**.
3. Click the **Drivers** tab→ **Roll Back Driver**.

Windows Vista

1. Click the Windows Vista start button  , and right-click **Computer**.
2. Click **Properties→ Device Manager**.

 **NOTE:** The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to enter the Device Manager.

3. Right-click the device for which the new driver was installed and click **Properties**.
4. Click the **Drivers** tab→ **Roll Back Driver**.

If Device Driver Rollback does not resolve the problem, use System Restore (see [Restoring Your Operating System](#)) to return your computer to the operating

state that existed before you installed the new driver.


Using the Drivers and Utilities Media

If using Device Driver Rollback or System Restore (see [Restoring Your Operating System](#)) does not resolve the problem, reinstall the driver from your *Drivers and Utilities* media.

1. With the Windows desktop displayed, insert your *Drivers and Utilities* media.

If this is your first time to use your *Drivers and Utilities* media, continue to [step 2](#). If not, proceed to [step 5](#).


2. When the *Drivers and Utilities* installation program starts, follow the prompts on the screen.

 **NOTE:** In most cases, the *Drivers and Utilities* program starts running automatically. If it does not, start Windows Explorer, click your media drive directory to display the media contents, and then double-click the **autorcd.exe** file.

3. When the **InstallShield Wizard Complete** window appears, remove the *Drivers and Utilities* disc and click **Finish** to restart the computer.

4. When you see the Windows desktop, reinsert the *Drivers and Utilities* disc.

5. At the **Welcome Dell System Owner** screen, click **Next**.

 **NOTE:** The *Drivers and Utilities* program displays drivers only for hardware that came installed in your computer. If you installed additional hardware, the drivers for the new hardware might not be displayed. If those drivers are not displayed, exit the *Drivers and Utilities* program. For drivers information, see the documentation that came with the device.


A message stating that the *Drivers and Utilities* program is detecting hardware in your computer appears.

The drivers that are used by your computer are automatically displayed in the **My Drivers—The ResourceDVD has identified these components in your system** window.

6. Click the driver that you want to reinstall and follow the instructions on the screen.

If a particular driver is not listed, then that driver is not required by your operating system.

Manually Reinstalling Drivers


 **NOTE:** If your computer has a Consumer IR port and you are reinstalling a Consumer IR driver, you must first enable the Consumer IR port in the system setup program (see [System Setup Screens](#)) before continuing with the driver installation (see [Reinstalling Drivers and Utilities](#)). For information about components installed on your computer, see [Front View](#).

After extracting the driver files to your hard drive, as described in the previous section:

Windows XP

1. Click **Start→ My Computer→ Properties→ Hardware→ Device Manager**.
2. Double-click the type of device for which you are installing the driver (for example, **Audio** or **Video**).
3. Double-click the name of the device for which you are installing the driver.
4. Click the **Driver** tab→ **Update Driver**.
5. Click **Install from a list or specific location (Advanced)→ Next**.
6. Click **Browse** and browse to the location to which you previously copied the driver files.
7. When the name of the appropriate driver appears, click **Next**.
8. Click **Finish** and restart your computer.

Windows Vista

1. Click the Windows Vista start button , and right-click **Computer**.
2. Click **Properties→ Device Manager**.



NOTE: The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to enter the Device Manager.

3. Double-click the type of device for which you are installing the driver (for example, **Audio** or **Video**).
4. Double-click the name of the device for which you are installing the driver.
5. Click the **Driver** tab→ **Update Driver**→ **Browse my computer for driver software**.
6. Click **Browse** and browse to the location to which you previously copied the driver files.
7. When the name of the appropriate driver appears, click the name of the driver→ **OK**→ **Next**.
8. Click **Finish** and restart your computer.

Troubleshooting Software and Hardware Problems in the Microsoft® Windows® XP and Microsoft Windows Vista™ Operating Systems

If a device is either not detected during the operating system setup or is detected but incorrectly configured, use Windows Vista Help and Support to resolve the incompatibility:


If a device is either not detected during the operating system setup or is detected but incorrectly configured, you can use the Hardware Troubleshooter to resolve the incompatibility.

To start the Hardware Troubleshooter:

Windows XP

1. Click **Start**→ **Help and Support**.
2. Type `hardware troubleshooter` in the search field and press <Enter> to start the search.
3. In the **Fix a Problem** section, click **Hardware Troubleshooter**.
4. In the **Hardware Troubleshooter** list, select the option that best describes the problem and click **Next** to follow the remaining troubleshooting steps.

Windows Vista

1. Click the Windows Vista start button  , and click **Help and Support**.
2. Type `hardware troubleshooter` in the search field and press <Enter> to start the search.
3. In the search results, select the option that best describes the problem and follow the remaining troubleshooting steps.

Restoring Your Operating System

You can restore your operating system in the following ways:


- 1 Microsoft Windows Vista System Restore returns your computer to an earlier operating state without affecting data files. Use System Restore as the first solution for restoring your operating system and preserving data files. For instructions, see [Using Microsoft Windows System Restore](#).
- 1 Dell PC Restore by Symantec (available in Windows XP) and Dell Factory Image Restore (available in Windows Vista) returns your hard drive to the operating state it was in when you purchased the computer. Both permanently delete all data on the hard drive and remove any programs installed after you received the computer. Use Dell PC Restore or Dell Factory Image Restore only if System Restore did not resolve your operating system problem.
- 1 If you received *Operating System* media with your computer, you can use it to restore your operating system. However, using the *Operating System* media also deletes all data on the hard drive. Use the media *only* if System Restore did not resolve your operating system problem. For instructions, see [Using the Operating System Media](#).


Using Microsoft Windows System Restore


The Windows operating system provides System Restore to allow you to return your computer to an earlier operating state (without affecting data files) if changes to the hardware, software, or other system settings have left the computer in an undesirable operating state. Any changes that System Restore makes to your computer are completely reversible.



NOTICE: Make regular backups of your data files. System Restore does not monitor your data files or recover them.

 **NOTE:** The procedures in this document were written for the Windows default view, so they may not apply if you set your Dell computer to the Windows Classic view.

1. Click **Start**  → **Help and Support**.
2. Type **System Restore** in the search field, then press <Enter>.


 **NOTE:** The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to continue the desired action.

3. Click **Next** and follow the remaining prompts on the screen.

In the event that System Restore did not resolve the issue, you may undo the last system restore.


Starting System Restore


Windows XP

 **NOTICE:** Before you restore the computer to an earlier operating state, save and close any open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.

1. Click **Start** → **All Programs** → **Accessories** → **System Tools** → **System Restore**.
2. Click either **Restore my computer to an earlier time** or **Create a restore point**.
3. Click **Next** and follow the remaining on-screen prompts.

Windows Vista


1. Click **Start** .
2. In the Start Search box, type **System Restore** and press <Enter>.

 **NOTE:** The **User Account Control** window may appear. If you are an administrator on the computer, click **Continue**; otherwise, contact your administrator to continue the desired action.

3. Click **Next** and follow the remaining prompts on the screen.

In the event that System Restore did not resolve the issue, you may undo the last system restore.


Undoing the Last System Restore

 **NOTICE:** Before you undo the last system restore, save and close all open files and exit any open programs. Do not alter, open, or delete any files or programs until the system restoration is complete.


Windows XP

1. Click **Start** → **All Programs** → **Accessories** → **System Tools** → **System Restore**.
2. Click **Undo my last restoration** and click **Next**.

Windows Vista

1. Click **Start** .
2. In the Start Search box, type **System Rest.**

Enabling System Restore


 **NOTE:** Windows Vista does not disable System Restore; regardless of low disk space. Therefore, the steps below apply only to Windows XP.


If you reinstall Windows XP with less than 200 MB of free hard-disk space available, System Restore is automatically disabled.

To see if System Restore is enabled:

1. Click **Start**→ **Control Panel**→ **Performance and Maintenance**→ **System**.
2. Click the **System Restore** tab and ensure that **Turn off System Restore** is unchecked.

Using Dell™ PC Restore and Dell Factory Image Restore

 **NOTICE:** Using Dell PC Restore or Dell Factory Image Restore permanently deletes all data on the hard drive and removes any programs or drivers installed after you received your computer. If possible, back up the data before using these options. Use PC Restore or Dell Factory Image Restore only if System Restore did not resolve your operating system problem.

 **NOTE:** Dell PC Restore by Symantec and Dell Factory Image Restore may not be available in certain countries or on certain computers.

Use Dell PC Restore (Windows XP) or Dell Factory Image Restore (Windows Vista) only as the last method to restore your operating system. These options restore your hard drive to the operating state it was in when you purchased the computer. Any programs or files added since you received your computer—including data files—are permanently deleted from the hard drive. Data files include documents, spreadsheets, e-mail messages, digital photos, music files, and so on. If possible, back up all data before using PC Restore or Factory Image Restore.

Dell PC Restore


Using PC Restore:

1. Turn on the computer.

During the boot process, a blue bar with **www.dell.com** appears at the top of the screen.

2. Immediately upon seeing the blue bar, press <Ctrl><F11>.


If you do not press <Ctrl><F11> in time, let the computer finish starting, and then restart the computer again.

 **NOTICE:** If you do not want to proceed with PC Restore, click **Reboot**.

3. Click **Restore** and click **Confirm**.

The restore process takes approximately 6 to 10 minutes to complete.

4. When prompted, click **Finish** to reboot the computer.

 **NOTE:** Do not manually shut down the computer. Click **Finish** and let the computer completely reboot.

5. When prompted, click **Yes**.


The computer restarts. Because the computer is restored to its original operating state, the screens that appear, such as the End User License Agreement, are the same ones that appeared the first time the computer was turned on.

6. Click **Next**.

The **System Restore** screen appears and the computer restarts.


7. After the computer restarts, click **OK**.


Removing PC Restore

 **NOTICE:** Removing Dell PC Restore from the hard drive permanently deletes the PC Restore utility from your computer. After you have removed Dell PC Restore, you will not be able to use it to restore your computer operating system.

Dell PC Restore enables you to restore your hard drive to the operating state it was in when you purchased your computer. It is recommended that you *do not* remove PC Restore from your computer, even to gain additional hard-drive space. If you remove PC Restore from the hard drive, you cannot ever recall it, and you will never be able to use PC Restore to return your computer operating system to its original state.

1. Log on to the computer as a local administrator.
2. In Microsoft Windows Explorer, go to **c:\dell\utilities\DSR**.
3. Double-click the filename **DSRIRRemv2.exe**.

 **NOTE:** If you do not log on as a local administrator, a message appears stating that you must log on as administrator. Click **Quit**, and then log on as a local administrator.

 **NOTE:** If the partition for PC Restore does not exist on your computer hard drive, a message appears stating that the partition was not found. Click **Quit**; there is no partition to delete.

4. Click **OK** to remove the PC Restore partition on the hard drive.

5. Click **Yes** when a confirmation message appears.

The PC Restore partition is deleted and the newly available disk space is added to the free space allocation on the hard drive.

6. Right-click **Local Disk (C)** in Windows Explorer, click **Properties**, and verify that the additional disk space is available as indicated by the increased value for **Free Space**.

7. Click **Finish** to close the **PC Restore Removal** window and restart the computer.

Windows Vista: Dell Factory Image Restore

1. Turn on the computer. When the Dell logo appears, press <F8> several times to access the Vista Advanced Boot Options Window.


2. Select **Repair Your Computer**.

The System Recovery Options window appears.

3. Select a keyboard layout and click **Next**.

4. To access the recovery options, log on as a local user. To access the command prompt, type `administrator` in the User name field, then click **OK**.

5. Click **Dell Factory Image Restore**.

 **NOTE:** Depending upon your configuration, you may need to select **Dell Factory Tools**, then **Dell Factory Image Restore**.

The Dell Factory Image Restore welcome screen appears.

6. Click **Next**.

The Confirm Data Deletion screen appears.

 **NOTICE:** If you do not want to proceed with Factory Image Restore, click **Cancel**.

7. Click the checkbox to confirm that you want to continue reformatting the hard drive and restoring the system software to the factory condition, then click **Next**.


The restore process begins and may take five or more minutes to complete. A message appears when the operating system and factory-installed applications have been restored to factory condition.

8. Click **Finish** to reboot the system.

Using the Operating System Media


Before You Begin

If you are considering reinstalling the Windows operating system to correct a problem with a newly installed driver, first try using Windows Device Driver Rollback (see [Using Windows Device Driver Rollback](#)). If Device Driver Rollback does not resolve the problem, then use System Restore to return your operating system to the operating state it was in before you installed the new device driver (see [Using Microsoft Windows System Restore](#)).

 **NOTICE:** Before performing the installation, back up all data files on your primary hard drive. For conventional hard drive configurations, the primary hard drive is the first drive detected by the computer.


To reinstall Windows, you need the following items:

- 1 Dell *Operating System* media
- 1 Dell *Drivers and Utilities* media

 **NOTE:** Your *Drivers and Utilities* media contains drivers that were installed during assembly of the computer. Use your *Drivers and Utilities* media to load any required drivers, including the drivers required if your computer has a RAID controller.


Reinstalling Windows XP or Windows Vista


The reinstallation process can take 1 to 2 hours to complete. After you reinstall the operating system, you must also reinstall the device drivers, virus protection program, and other software.

 **NOTICE:** The *Operating System* media provides options for reinstalling Windows XP. The options can overwrite files and possibly affect programs that are installed on your hard drive. Therefore, do not reinstall Windows XP unless a Dell technical support representative instructs you to do so.

1. Save and close any open files and exit any open programs.
2. Insert the *Operating System* disc.
3. Click **Exit** if the **Install Windows** message appears.
4. Restart the computer.

When the DELL logo appears, press <F12> immediately.

 **NOTE:** If you wait too long and the operating system logo appears, continue to wait until you see the Microsoft® Windows® desktop; then, shut down your computer and try again.

 **NOTE:** The next steps change the boot sequence for one time only. On the next start-up, the computer boots according to the devices specified in the system setup program.

5. When the boot device list appears, highlight **CD/DVD/CD-RW Drive** and press <Enter>.
6. Press any key to **Boot from CD-ROM**.
7. Follow the instructions on the screen to complete the installation.

[Back to Contents Page](#)

[Back to Contents Page](#)

Setting Up and Using Networks

Dell™ XPS™ M1730 Owner's Manual

- [Connecting a Network or Broadband Modem Cable](#)
- [Setting Up a Network](#)
- [Wireless Local Area Network](#)
- [Mobile Broadband \(or Wireless Wide Area Network\)](#)
- [Dell Wi-Fi Catcher™ Network Locator](#)


Setting up a computer network provides connectivity between your computer and the Internet, another computer, or a network. For example, with a network set up in a home or small office you can print to a shared printer, access drives and files on another computer, browse other networks, or access the Internet. You can set up a local area network (LAN) using a network or broadband modem cable or set up a wireless LAN (WLAN).

The Microsoft® Windows® XP and Microsoft Windows Vista™ operating systems provide wizards to help guide you through the process of networking computers. For more information about Networking, see the Windows Help and Support Center (see [Microsoft Windows XP and Windows Vista Help and Support Center](#)).


Connecting a Network or Broadband Modem Cable

Before you connect your computer to a network, the computer must have a network adapter installed and a network cable connected to it.

1. Connect the network cable to the network adapter connector on the back of your computer.

 **NOTE:** Insert the cable connector until it clicks into place, and then gently pull on the cable to ensure that it is securely attached.

2. Connect the other end of the network cable to a network connection device or a network wall connector.

 **NOTE:** Do not use a network cable with a telephone wall connector.



Setting Up a Network


Windows XP

1. Click **Start**→ **All Programs**→ **Accessories**→ **Communications**→ **Network Setup Wizard**→ **Next**→ **Checklist for creating a network**.

 **NOTE:** Selecting the connection method labeled **This computer connects directly to the Internet** enables the integrated firewall provided with Windows XP Service Pack 2 (SP2).

2. Complete the checklist.
3. Return to the Network Setup Wizard and follow the instructions in the wizard.

Windows Vista

1. Click the Windows Vista Start button , and then click **Connect To**→ **Set up a connection or network**.
 2. Select an option under **Choose a connection option**.
 3. Click **Next**, and then follow the instructions in the wizard.
-

Wireless Local Area Network

A wireless local area network (WLAN) is a series of interconnected computers that communicate with each other over the air waves rather than through a network cable connected to each computer. In a WLAN, a radio communications device called an access point or wireless router connects network computers and provides Internet, or network access. The access point or wireless router and the wireless network card in the computer communicate by broadcasting data from their antennas over the air waves.

What You Need to Establish a WLAN Connection

Before you can set up a WLAN, you need:

- 1 High-speed (broadband) Internet access (such as cable or DSL)
- 1 A broadband modem that is connected and working
- 1 A wireless router or access point
- 1 A wireless network card for each computer that you want to connect to your WLAN


Checking Your Wireless Network Card

Depending on what you selected when you purchased your computer, the computer has a variety of configurations. To confirm that your computer has a wireless network card and to determine the type of card:

- 1 Start button and **Connect To** option
- 1 Check the order confirmation for your computer

Start Button and Connect To Option

In Microsoft Windows XP, click **Start**→ **Connect To**→ **Show all connections**.

 **NOTE:** If your computer is set to the **Classic Start** menu option, click **Start**→ **Settings**→ **Network Connections** to view your network connections.


In Microsoft Windows Vista, click  → **Connect To**→ **View network computers and devices**.

If Wireless Network Connection does not appear under LAN or High-Speed Internet, you may not have a wireless network card.

If Wireless Network Connection appears, you have a wireless network card. To view detailed information about the wireless network card:

1. Right-click **Wireless Network Connection**.
2. Click **Properties**.

The **Wireless Network Connection Properties** window appears. The wireless network card's name and model number are listed on the **General** tab.


 **NOTE:** If **Wireless Network Connection** does not appear, you may not have a wireless network card.


The Order Confirmation for Your Computer

The order confirmation that you received when you ordered your computer lists the hardware and software that shipped with your computer.


Setting Up a New WLAN Using a Wireless Router and a Broadband Modem

1. Contact your Internet service provider (ISP) to obtain specific information about the connection requirements for your broadband modem.

2. Ensure that you have wired Internet access through your broadband modem before you attempt to set up a wireless Internet connection (see [Connecting a Network or Broadband Modem Cable](#)).
3. Install any software required for your wireless router. Your wireless router may have been shipped with installation media. Installation media usually contains installation and troubleshooting information. Install the required software according to the instructions provided by the router manufacturer.
4. Shut down your computer and any other wireless-enabled computers in the vicinity through the Windows Vista Start button  , or **Start→Shutdown** in Windows XP.
5. Disconnect your broadband modem power cable from the electrical outlet.
6. Disconnect the network cable from the computer and the modem.
7. Disconnect the AC adapter cable from your wireless router to ensure that there is no power connected to the router.


 **NOTE:** Wait for a minimum of 5 minutes after disconnecting your broadband modem before continuing with the network setup.


8. Insert a network cable into the network (RJ-45) connector on the unpowered broadband modem.
9. Connect the other end of the network cable into the Internet network (RJ-45) connector on the unpowered wireless router.
10. Ensure that no network or USB cables, other than the network cable connecting the modem and the wireless router, are connected to the broadband modem.

 **NOTE:** Restart your wireless equipment in the order described below to prevent a potential connection failure.

11. Turn on *only* your broadband modem and wait for at least 2 minutes for the broadband modem to stabilize. After 2 minutes, proceed to [step 12](#).
12. Turn on your wireless router and wait for at least 2 minutes for the wireless router to stabilize. After 2 minutes, proceed to the [step 13](#).
13. Start your computer and wait until the boot process completes.
14. See the documentation that came with your wireless router to do the following in order to set up the wireless router:
 1. Establish communication between your computer and your wireless router.
 1. Configure your wireless router to communicate with your broadband router.
 1. Find out your wireless router's broadcast name. The technical term for the name of your router's broadcast name is Service Set Identifier (SSID) or network name.
15. If necessary, configure your wireless network card to connect to the wireless network (see [Connecting to a WLAN](#)).


Connecting to a WLAN

 **NOTE:** Before you connect to a WLAN, ensure that you have followed the instructions in [Wireless Local Area Network](#).

 **NOTE:** The following networking instructions do not apply to internal cards with Bluetooth® wireless technology or cellular products.


This section provides general procedures for connecting to a network using wireless technology. Specific network names and configuration details vary. See [Wireless Local Area Network](#) for more information about how to prepare for connecting your computer to a WLAN.

Your wireless network card requires specific software and drivers for connecting to a network. The software is already installed.

 **NOTE:** If the software is removed or corrupted, follow the instructions in the user documentation for your wireless network card. Verify the type of wireless network card installed in your computer and then search for that name on the Dell™ Support website at [support.dell.com](#). For information on the type of wireless network card that is installed in your computer, see [Checking Your Wireless Network Card](#).


When you turn on your computer and a network (for which your computer is not configured) is detected in the area, a pop-up appears near the network icon in the Windows notification area.


To connect to the network:

1. Click **Start**  , and then click **Network**.
2. Click **Network and Sharing** on the navigation bar at the top of the Network folder.
3. Click **Connect to a network** under **Tasks**.
4. Select your network from the list and click **Connect**.

Once you have configured your computer for a wireless network, another pop-up notifies you that your computer is connected to that network.

Thereafter, whenever you log on to your computer within the range of the wireless network that you selected, the same pop-up notifies you of the wireless network connection.

 **NOTE:** If you select a secure network, you must enter a WEP or WPA key when prompted. Network security settings are unique to your network. Dell cannot provide this information.

 **NOTE:** Your computer can take up to 1 minute to connect to the network.

Determining the Wireless Network Device Manager

Depending on the software installed on your computer, different wireless configuration utilities may manage your network devices:

- 1 Your wireless network card's client utility
- 1 The Windows XP or Windows Vista operating system


To determine which wireless configuration utility is managing your wireless network card in Windows XP:

1. Click **Start**→ **Settings**→ **Control Panel**→ **Network Connections**.
2. Right-click the **Wireless Network Connection** icon, and then click **View Available Wireless Networks**.

If the **Choose a wireless network** window states **Windows cannot configure this connection**, the wireless network card's client utility is managing the wireless network card.

If the **Choose a wireless network** window states **Click an item in the list below to connect to a wireless network in range or to get more information**, the Windows XP operating system is managing the wireless network card.

To determine which wireless configuration utility is managing your wireless network card in Windows Vista:

1. Click  → **Connect To**→ **Manage wireless networks**.
2. Double-click a profile to open the wireless network properties screen.

For specific information about the wireless configuration utility installed on your computer, see your wireless network documentation in the Windows Help and Support Center (see [Microsoft Windows XP and Windows Vista Help and Support Center](#)).


Completing the Connection to the WLAN


When you turn on your computer and a network (for which your computer is not configured) is detected in the area, a pop-up appears near the network icon in the notification area (in the lower-right corner of the Windows desktop).

Follow the instructions provided in any utility prompts that appear on your screen.

Once you have configured your computer for the wireless network that you selected, another pop-up notifies you that your computer is connected to that network.

Thereafter, whenever you log on to your computer within the range of the wireless network that you selected, the same pop-up notifies you of the wireless network connection.

 **NOTE:** If you select a secure network, you must enter a WEP or WPA key when prompted. Network security settings are unique to your network. Dell cannot provide this information.

 **NOTE:** Your computer can take up to 1 minute to connect to the network.

Monitoring the Status of the Wireless Network Card Through Dell QuickSet


The wireless activity indicator provides you with an easy way to monitor the status of your computer's wireless devices. To turn the wireless activity indicator on or off, click the QuickSet icon in the taskbar and select **Hotkey Popups**. If **Wireless Activity Indicator Off** is not checked, the indicator is on. If **Wireless Activity Indicator Off** is checked, the indicator is off.

The wireless activity indicator displays whether your computer's integrated wireless devices are enabled or disabled. When you turn the wireless networking function on or off, the wireless activity indicator changes to display the status.


For more information about the Dell QuickSet wireless activity indicator, right-click the QuickSet icon in the taskbar, and then select **Help**.

Mobile Broadband (or Wireless Wide Area Network)

A Mobile Broadband network, also known as a Wireless Wide Area Network (WWAN), is a high-speed digital cellular network that provides Internet access over a much wider geographical area than a WLAN, which typically covers only from 100 to 1000 feet. Your computer can maintain Mobile Broadband network access as long as the computer is within a cellular-data coverage zone. Contact your service provider for coverage of a high-speed digital cellular network.


 **NOTE:** Even if you are able to make a call from your cellular phone in a specific geographical location, that location may not necessarily be within a cellular-data coverage zone.

What You Need to Establish a Mobile Broadband Network Connection


 **NOTE:** Depending on your computer, you can use either a Mobile Broadband ExpressCard or Mini Card, but not both, to establish a Mobile Broadband network connection.

To set up a Mobile Broadband network connection, you need:

- 1 A Mobile Broadband ExpressCard or Mini Card (depending on your computer's configuration)

 **NOTE:** For instructions on using ExpressCards, see [ExpressCards](#).

- 1 An activated Mobile Broadband ExpressCard or activated Subscriber Identity Module (SIM) for your service provider
- 1 The Dell Mobile Broadband Card Utility (already installed on your computer if you purchased the card when you purchased your computer, or on the media that accompanied your card if purchased separately from your computer)


If the utility is corrupted or deleted from your computer, see the Dell Mobile Broadband Card Utility user's guide in Windows Help and Support (click **Start**  , and then click **Help and Support**) or on the media that accompanied your card if you purchased it separately from your computer.

Checking Your Dell Mobile Broadband Card


Depending on what you selected when you purchased your computer, the computer has a variety of configurations. To determine your computer configuration, see one of the following:

- 1 Your order confirmation
- 1 Microsoft Windows Help and Support


To check your Mobile Broadband card in Windows Help and Support:



1. Click **Start**  → **Help and Support** → **Use Tools to view your computer information and diagnose problems**.
2. Under **Tools**, click **My Computer Information** → **Find information about the hardware installed on this computer**.

On the **My Computer Information - Hardware** screen, you can view the type of Mobile Broadband card installed in your computer as well as other hardware components.


 **NOTE:** The Mobile Broadband card is listed under **Modems**.


Connecting to a Mobile Broadband Network

 **NOTE:** These instructions only apply to Mobile Broadband ExpressCards or Mini-Cards. They do not apply to internal cards with other wireless technology.


 **NOTE:** Before you connect to the Internet, you must activate Mobile Broadband service through your cellular service provider. For instructions and for additional information about using the Dell Mobile Broadband Card Utility, see the user's guide available through Windows Help and Support (click **Start**  , and then click **Help and Support**). The user's guide is also available on the Dell Support website at support.dell.com and on the media included with your Mobile Broadband card if you purchased the card separately from your computer.

Use the Dell Mobile Broadband Card Utility to establish and manage a Mobile Broadband network connection to the Internet:


1. Click the Dell Mobile Broadband Card Utility icon  in the Windows notification area to run the utility.
2. Click **Connect**.

 **NOTE:** The **Connect** button changes to the **Disconnect** button.

3. Follow the instructions on the screen to manage the network connection with the utility.
- or

1. Click **Start**  → **All Programs** → **Dell Wireless**.
2. Click **Dell Wireless Broadband** and follow the instructions on the screen.

Enabling/Disabling the Dell Mobile Broadband Card

 **NOTE:** If you are unable to connect to a Mobile Broadband network, ensure that you have all the components for establishing a Mobile Broadband connection (see [What You Need to Establish a Mobile Broadband Network Connection](#)), and then verify that your Mobile Broadband card is enabled by verifying the setting of the wireless switch.

You can turn your Mobile Broadband card on and off using the wireless switch on your computer.

You can turn your computer's wireless devices on and off with the wireless switch on the right side of the computer (see [Right Side View](#)).

If the switch is in the *on* position, move the switch to the *off* position to disable the switch and the Mobile Broadband card. If the switch is in the *off* position, move the switch to the *on* position to enable the switch and the Dell Mobile Broadband card.

To monitor the status of your wireless device, see [Monitoring the Status of the Wireless Network Card Through Dell QuickSet](#).

Dell Wi-Fi Catcher™ Network Locator

You can use the wireless switch to rapidly turn off or on any wireless devices such as WLAN cards and internal cards with Bluetooth wireless technology. The wireless switch on your Dell computer uses the Dell Wi-Fi Catcher Network Locator to scan specifically for wireless networks in your vicinity.

To scan for a wireless network, push the Wi-Fi Catcher Network Locator button. It functions regardless of whether your computer is turned on or off, or in Sleep state, as long as the switch is configured through Dell QuickSet or the BIOS (system setup program) to control WiFi network connections.

Because the Wi-Fi Catcher Network Locator is disabled and not configured for use when your computer is shipped to you, you must first use Dell QuickSet to enable and configure the switch to control WiFi network connections. For more information on the Wi-Fi Catcher Network Locator and to enable the feature through Dell QuickSet, right-click the QuickSet icon in the notification area, and then select **Help**.

[Back to Contents Page](#)